

Appendix for Band 7

Report No.: BCTC2410177766-3E

Applicant: GEM ONE NV

Product Name: Onyx V4

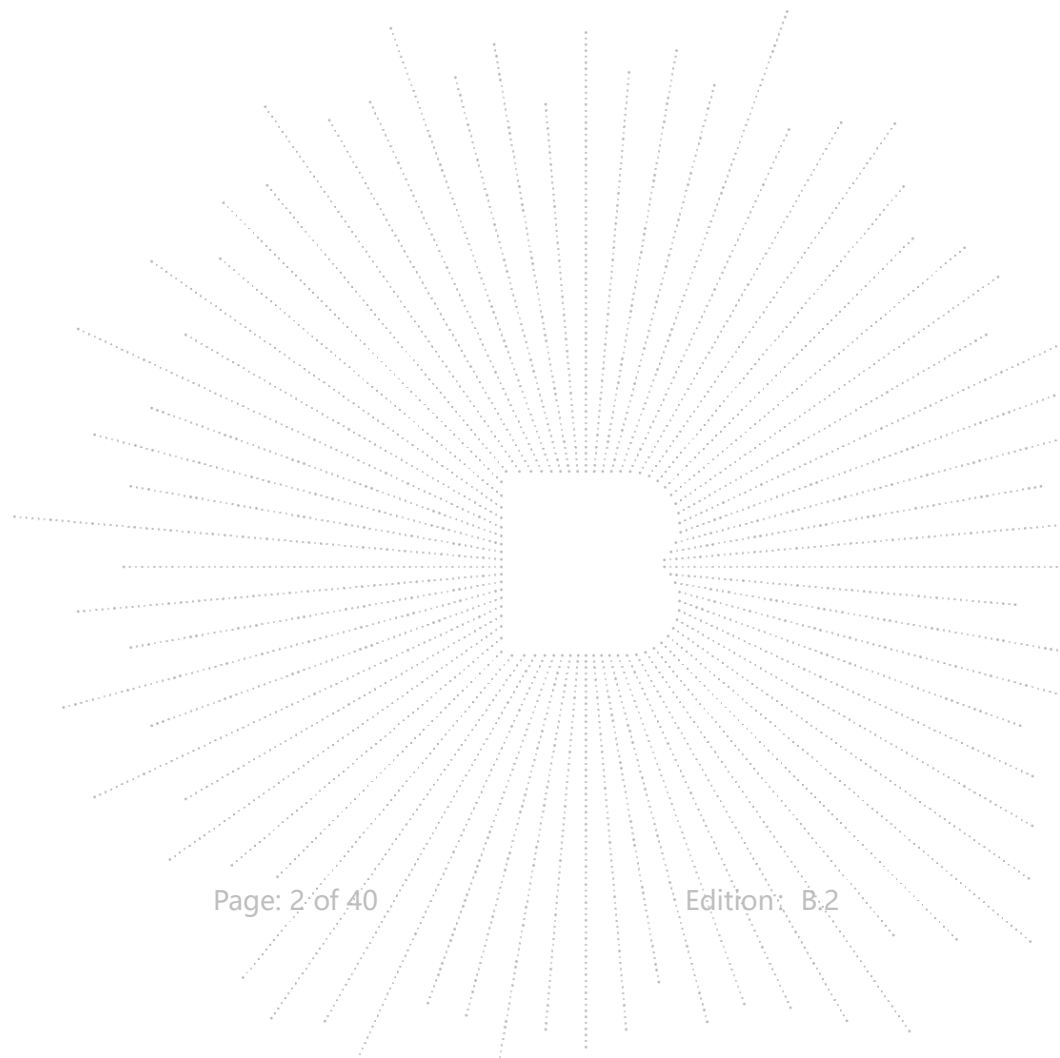
Test Model: Onyx V4

Tested Date: 2024-10-28 to 2024-11-11

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	23.56	2	25.56	PASS
Band7	5	20775	1	#Mid	QPSK	23.46	2	25.46	PASS
Band7	5	20775	1	#Max	QPSK	23.78	2	25.78	PASS
Band7	5	20775	12	#0	QPSK	22.73	2	24.73	PASS
Band7	5	20775	12	#Mid	QPSK	22.69	2	24.69	PASS
Band7	5	20775	12	#Max	QPSK	22.90	2	24.90	PASS
Band7	5	20775	25	#0	QPSK	22.62	2	24.62	PASS
Band7	5	20775	1	#0	16QAM	22.81	2	24.81	PASS
Band7	5	20775	1	#Mid	16QAM	22.77	2	24.77	PASS
Band7	5	20775	1	#Max	16QAM	23.16	2	25.16	PASS
Band7	5	20775	12	#0	16QAM	21.72	2	23.72	PASS
Band7	5	20775	12	#Mid	16QAM	21.71	2	23.71	PASS
Band7	5	20775	12	#Max	16QAM	21.85	2	23.85	PASS
Band7	5	20775	25	#0	16QAM	21.59	2	23.59	PASS
Band7	5	21100	1	#0	QPSK	23.60	2	25.60	PASS
Band7	5	21100	1	#Mid	QPSK	23.35	2	25.35	PASS
Band7	5	21100	1	#Max	QPSK	23.53	2	25.53	PASS
Band7	5	21100	12	#0	QPSK	22.90	2	24.90	PASS
Band7	5	21100	12	#Mid	QPSK	22.81	2	24.81	PASS
Band7	5	21100	12	#Max	QPSK	22.86	2	24.86	PASS
Band7	5	21100	25	#0	QPSK	22.56	2	24.56	PASS
Band7	5	21100	1	#0	16QAM	22.92	2	24.92	PASS
Band7	5	21100	1	#Mid	16QAM	22.64	2	24.64	PASS
Band7	5	21100	1	#Max	16QAM	22.87	2	24.87	PASS
Band7	5	21100	12	#0	16QAM	21.92	2	23.92	PASS
Band7	5	21100	12	#Mid	16QAM	21.86	2	23.86	PASS
Band7	5	21100	12	#Max	16QAM	21.87	2	23.87	PASS
Band7	5	21100	25	#0	16QAM	21.52	2	23.52	PASS
Band7	5	21425	1	#0	QPSK	23.25	2	25.25	PASS
Band7	5	21425	1	#Mid	QPSK	22.97	2	24.97	PASS
Band7	5	21425	1	#Max	QPSK	23.38	2	25.38	PASS
Band7	5	21425	12	#0	QPSK	22.65	2	24.65	PASS
Band7	5	21425	12	#Mid	QPSK	22.55	2	24.55	PASS
Band7	5	21425	12	#Max	QPSK	22.88	2	24.88	PASS
Band7	5	21425	25	#0	QPSK	22.15	2	24.15	PASS
Band7	5	21425	1	#0	16QAM	22.76	2	24.76	PASS

Band7	5	21425	1	#Mid	16QAM	22.52	2	24.52	PASS
Band7	5	21425	1	#Max	16QAM	22.93	2	24.93	PASS
Band7	5	21425	12	#0	16QAM	21.68	2	23.68	PASS
Band7	5	21425	12	#Mid	16QAM	21.59	2	23.59	PASS
Band7	5	21425	12	#Max	16QAM	21.97	2	23.97	PASS
Band7	5	21425	25	#0	16QAM	21.16	2	23.16	PASS
Band7	10	20800	1	#0	QPSK	23.53	2	25.53	PASS
Band7	10	20800	1	#Mid	QPSK	23.67	2	25.67	PASS
Band7	10	20800	1	#Max	QPSK	23.54	2	25.54	PASS
Band7	10	20800	25	#0	QPSK	22.66	2	24.66	PASS
Band7	10	20800	25	#Mid	QPSK	22.64	2	24.64	PASS
Band7	10	20800	25	#Max	QPSK	22.98	2	24.98	PASS
Band7	10	20800	50	#0	QPSK	22.68	2	24.68	PASS
Band7	10	21100	1	#0	QPSK	23.36	2	25.36	PASS
Band7	10	21100	1	#Mid	QPSK	23.53	2	25.53	PASS
Band7	10	21100	1	#Max	QPSK	23.53	2	25.53	PASS
Band7	10	21100	25	#0	QPSK	22.70	2	24.70	PASS
Band7	10	21100	25	#Mid	QPSK	22.61	2	24.61	PASS
Band7	10	21100	25	#Max	QPSK	22.77	2	24.77	PASS
Band7	10	21100	50	#0	QPSK	22.55	2	24.55	PASS
Band7	10	21400	1	#0	QPSK	23.05	2	25.05	PASS
Band7	10	21400	1	#Mid	QPSK	23.14	2	25.14	PASS
Band7	10	21400	1	#Max	QPSK	23.39	2	25.39	PASS
Band7	10	21400	25	#0	QPSK	22.27	2	24.27	PASS
Band7	10	21400	25	#Mid	QPSK	22.09	2	24.09	PASS
Band7	10	21400	25	#Max	QPSK	22.75	2	24.75	PASS
Band7	10	21400	50	#0	QPSK	22.01	2	24.01	PASS
Band7	15	20825	1	#0	QPSK	23.40	2	25.40	PASS
Band7	15	20825	1	#Mid	QPSK	23.42	2	25.42	PASS
Band7	15	20825	1	#Max	QPSK	23.29	2	25.29	PASS
Band7	15	20825	36	#0	QPSK	22.82	2	24.82	PASS
Band7	15	20825	36	#Mid	QPSK	22.88	2	24.88	PASS
Band7	15	20825	36	#Max	QPSK	22.87	2	24.87	PASS
Band7	15	20825	75	#0	QPSK	22.60	2	24.60	PASS
Band7	15	21100	1	#0	QPSK	23.32	2	25.32	PASS
Band7	15	21100	1	#Mid	QPSK	23.27	2	25.27	PASS
Band7	15	21100	1	#Max	QPSK	23.55	2	25.55	PASS
Band7	15	21100	36	#0	QPSK	22.56	2	24.56	PASS
Band7	15	21100	36	#Mid	QPSK	22.50	2	24.50	PASS
Band7	15	21100	36	#Max	QPSK	23.03	2	25.03	PASS
Band7	15	21100	75	#0	QPSK	22.47	2	24.47	PASS
Band7	15	21375	1	#0	QPSK	23.14	2	25.14	PASS
Band7	15	21375	1	#Mid	QPSK	22.95	2	24.95	PASS

Band7	15	21375	1	#Max	QPSK	23.46	2	25.46	PASS
Band7	15	21375	36	#0	QPSK	22.30	2	24.30	PASS
Band7	15	21375	36	#Mid	QPSK	22.16	2	24.16	PASS
Band7	15	21375	36	#Max	QPSK	22.93	2	24.93	PASS
Band7	15	21375	75	#0	QPSK	21.96	2	23.96	PASS
Band7	20	20850	1	#0	QPSK	23.40	2	25.40	PASS
Band7	20	20850	1	#Mid	QPSK	23.68	2	25.68	PASS
Band7	20	20850	1	#Max	QPSK	23.28	2	25.28	PASS
Band7	20	20850	50	#0	QPSK	22.76	2	24.76	PASS
Band7	20	20850	50	#Mid	QPSK	22.84	2	24.84	PASS
Band7	20	20850	50	#Max	QPSK	23.01	2	25.01	PASS
Band7	20	20850	100	#0	QPSK	22.38	2	24.38	PASS
Band7	20	21100	1	#0	QPSK	23.39	2	25.39	PASS
Band7	20	21100	1	#Mid	QPSK	23.42	2	25.42	PASS
Band7	20	21100	1	#Max	QPSK	23.48	2	25.48	PASS
Band7	20	21100	50	#0	QPSK	22.83	2	24.83	PASS
Band7	20	21100	50	#Mid	QPSK	22.75	2	24.75	PASS
Band7	20	21100	50	#Max	QPSK	23.38	2	25.38	PASS
Band7	20	21100	100	#0	QPSK	22.32	2	24.32	PASS
Band7	20	21350	1	#0	QPSK	23.07	2	25.07	PASS
Band7	20	21350	1	#Mid	QPSK	23.07	2	25.07	PASS
Band7	20	21350	1	#Max	QPSK	23.31	2	25.31	PASS
Band7	20	21350	50	#0	QPSK	22.26	2	24.26	PASS
Band7	20	21350	50	#Mid	QPSK	22.15	2	24.15	PASS
Band7	20	21350	50	#Max	QPSK	23.18	2	25.18	PASS
Band7	20	21350	100	#0	QPSK	21.77	2	23.77	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	LV	NT	5.09	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	NT	7.25	0.003	PASS
Band7	5	20775	25	#0	QPSK	HV	NT	5.41	0.002	PASS
Band7	5	20775	25	#0	16QAM	LV	NT	4.69	0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	NT	1.34	0.001	PASS
Band7	5	20775	25	#0	16QAM	HV	NT	3.18	0.001	PASS
Band7	5	21100	25	#0	QPSK	LV	NT	-7.70	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	NT	-6.14	-0.002	PASS
Band7	5	21100	25	#0	QPSK	HV	NT	-6.67	-0.003	PASS
Band7	5	21100	25	#0	16QAM	LV	NT	-5.76	-0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	NT	-6.59	-0.003	PASS
Band7	5	21100	25	#0	16QAM	HV	NT	-4.42	-0.002	PASS
Band7	5	21425	25	#0	QPSK	LV	NT	-6.34	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	NT	-7.21	-0.003	PASS
Band7	5	21425	25	#0	QPSK	HV	NT	-6.68	-0.003	PASS
Band7	5	21425	25	#0	16QAM	LV	NT	-7.34	-0.003	PASS
Band7	5	21425	25	#0	16QAM	NV	NT	-6.77	-0.003	PASS
Band7	5	21425	25	#0	16QAM	HV	NT	-5.71	-0.002	PASS
Band7	10	20800	50	#0	QPSK	LV	NT	-33.65	-0.013	PASS
Band7	10	20800	50	#0	QPSK	NV	NT	7.91	0.003	PASS
Band7	10	20800	50	#0	QPSK	HV	NT	9.74	0.004	PASS
Band7	10	21100	50	#0	QPSK	LV	NT	-8.73	-0.003	PASS
Band7	10	21100	50	#0	QPSK	NV	NT	-6.17	-0.002	PASS
Band7	10	21100	50	#0	QPSK	HV	NT	-6.11	-0.002	PASS
Band7	10	21400	50	#0	QPSK	LV	NT	-6.12	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	NT	-5.44	-0.002	PASS
Band7	10	21400	50	#0	QPSK	HV	NT	-5.26	-0.002	PASS
Band7	15	20825	75	#0	QPSK	LV	NT	-26.76	-0.011	PASS
Band7	15	20825	75	#0	QPSK	NV	NT	6.27	0.003	PASS
Band7	15	20825	75	#0	QPSK	HV	NT	6.85	0.003	PASS
Band7	15	21100	75	#0	QPSK	LV	NT	-5.52	-0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	NT	-6.92	-0.003	PASS
Band7	15	21100	75	#0	QPSK	HV	NT	-4.86	-0.002	PASS
Band7	15	21375	75	#0	QPSK	LV	NT	-4.43	-0.002	PASS
Band7	15	21375	75	#0	QPSK	NV	NT	-6.59	-0.003	PASS
Band7	15	21375	75	#0	QPSK	HV	NT	-6.07	-0.002	PASS
Band7	20	20850	100	#0	QPSK	LV	NT	-25.45	-0.010	PASS
Band7	20	20850	100	#0	QPSK	NV	NT	9.74	0.004	PASS

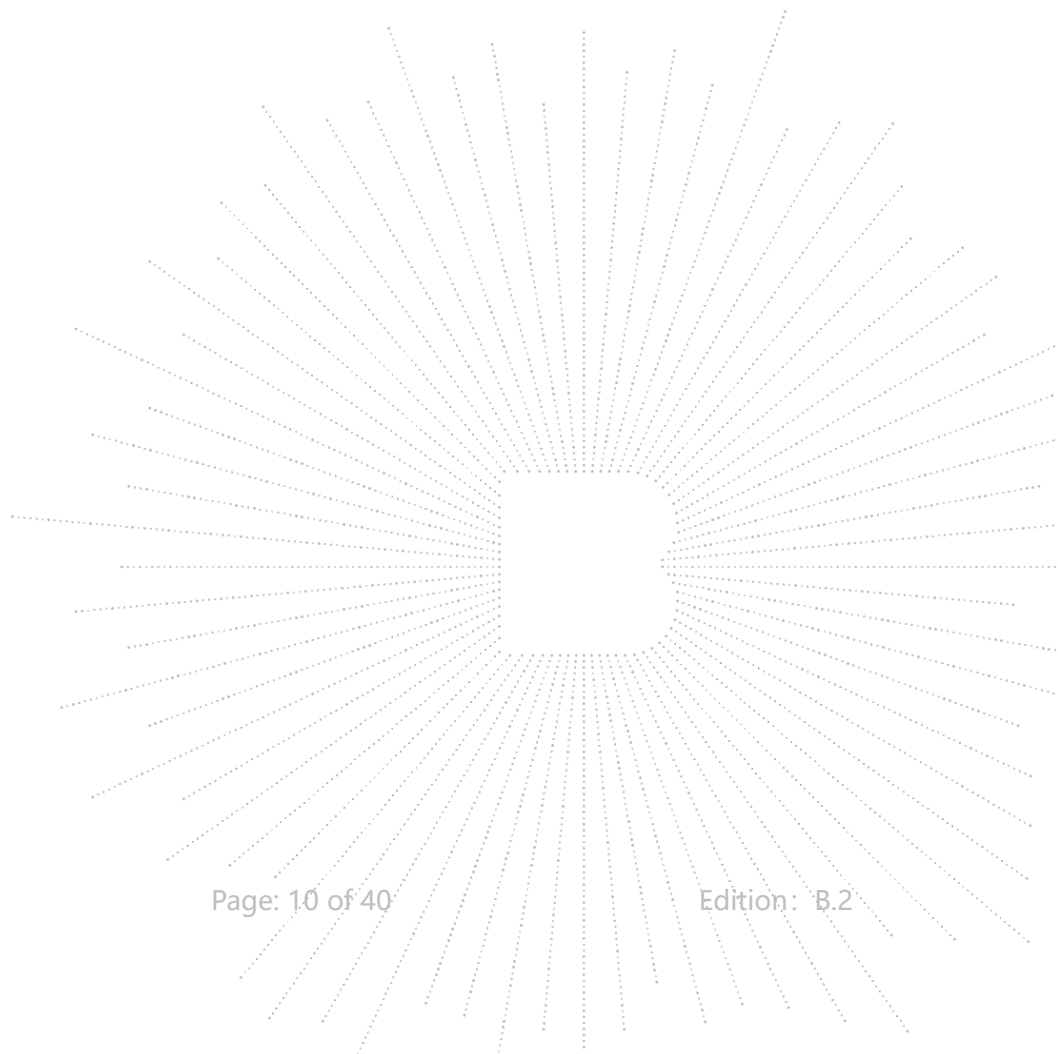
Band7	20	20850	100	#0	QPSK	HV	NT	8.21	0.003	PASS
Band7	20	21100	100	#0	QPSK	LV	NT	0.84	0.000	PASS
Band7	20	21100	100	#0	QPSK	NV	NT	-4.73	-0.002	PASS
Band7	20	21100	100	#0	QPSK	HV	NT	-2.49	-0.001	PASS
Band7	20	21350	100	#0	QPSK	LV	NT	-4.06	-0.002	PASS
Band7	20	21350	100	#0	QPSK	NV	NT	-6.38	-0.002	PASS
Band7	20	21350	100	#0	QPSK	HV	NT	-7.74	-0.003	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	NV	-30	4.69	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	-20	5.85	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	-10	5.88	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	0	2.92	0.001	PASS
Band7	5	20775	25	#0	QPSK	NV	10	4.18	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	20	4.43	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	30	6.77	0.003	PASS
Band7	5	20775	25	#0	QPSK	NV	40	-3.88	-0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	50	-5.66	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	-30	-6.18	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	-20	-4.82	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	-10	-6.39	-0.003	PASS
Band7	5	20775	25	#0	16QAM	NV	0	-4.02	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	10	-5.55	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	20	-4.48	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	30	-9.27	-0.004	PASS
Band7	5	20775	25	#0	16QAM	NV	40	-6.17	-0.002	PASS
Band7	5	20775	25	#0	16QAM	NV	50	-6.98	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	-30	-6.27	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	-20	-5.12	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	-10	-7.22	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	0	-7.27	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	10	-5.24	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	20	-4.41	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	30	-7.68	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	40	-4.26	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	50	-2.26	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	-30	-1.87	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	-20	-3.55	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	-10	-2.36	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	0	-6.22	-0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	10	-4.45	-0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	20	-7.38	-0.003	PASS

Band7	5	21100	25	#0	16QAM	NV	30	-5.58	-0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	40	-2.78	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	50	-3.96	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	-30	-7.10	-0.003	PASS
Band7	5	21425	25	#0	QPSK	NV	-20	-3.99	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	-10	-4.81	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	0	-7.57	-0.003	PASS
Band7	5	21425	25	#0	QPSK	NV	10	-0.69	0.000	PASS
Band7	5	21425	25	#0	QPSK	NV	20	-4.46	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	30	-3.60	-0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	40	-5.01	-0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	50	-5.49	-0.002	PASS
Band7	5	21425	25	#0	16QAM	NV	-30	-7.35	-0.003	PASS
Band7	5	21425	25	#0	16QAM	NV	-20	-3.53	-0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	-10	-4.94	-0.002	PASS
Band7	5	21425	25	#0	16QAM	NV	0	-1.66	-0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	10	-4.96	-0.002	PASS
Band7	5	21425	25	#0	16QAM	NV	20	-0.23	0.000	PASS
Band7	5	21425	25	#0	16QAM	NV	30	-3.73	-0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	40	-5.71	-0.002	PASS
Band7	5	21425	25	#0	16QAM	NV	50	-2.98	-0.001	PASS
Band7	10	20800	50	#0	QPSK	NV	-30	-35.75	-0.014	PASS
Band7	10	20800	50	#0	QPSK	NV	-20	5.42	0.002	PASS
Band7	10	20800	50	#0	QPSK	NV	-10	7.93	0.003	PASS
Band7	10	20800	50	#0	QPSK	NV	0	6.27	0.003	PASS
Band7	10	20800	50	#0	QPSK	NV	10	7.80	0.003	PASS
Band7	10	20800	50	#0	QPSK	NV	20	4.23	0.002	PASS
Band7	10	20800	50	#0	QPSK	NV	30	-3.06	-0.001	PASS
Band7	10	20800	50	#0	QPSK	NV	40	-5.31	-0.002	PASS
Band7	10	20800	50	#0	QPSK	NV	50	-1.59	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	-30	-7.61	-0.003	PASS
Band7	10	21100	50	#0	QPSK	NV	-20	-5.39	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	-10	-4.31	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	0	-2.95	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	10	-4.59	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	20	-3.33	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	30	-4.48	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	40	-0.93	0.000	PASS
Band7	10	21100	50	#0	QPSK	NV	50	-4.12	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	-30	-5.14	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	-20	-0.14	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	-10	-0.36	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	0	-5.41	-0.002	PASS

Band7	10	21400	50	#0	QPSK	NV	10	-4.09	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	20	-4.61	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	30	-2.29	-0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	40	1.42	0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	50	-1.24	0.000	PASS
Band7	15	20825	75	#0	QPSK	NV	-30	-27.67	-0.011	PASS
Band7	15	20825	75	#0	QPSK	NV	-20	9.38	0.004	PASS
Band7	15	20825	75	#0	QPSK	NV	-10	8.03	0.003	PASS
Band7	15	20825	75	#0	QPSK	NV	0	6.58	0.003	PASS
Band7	15	20825	75	#0	QPSK	NV	10	6.61	0.003	PASS
Band7	15	20825	75	#0	QPSK	NV	20	6.15	0.002	PASS
Band7	15	20825	75	#0	QPSK	NV	30	-1.30	-0.001	PASS
Band7	15	20825	75	#0	QPSK	NV	40	-4.86	-0.002	PASS
Band7	15	20825	75	#0	QPSK	NV	50	-1.27	-0.001	PASS
Band7	15	21100	75	#0	QPSK	NV	-30	-4.88	-0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	-20	1.37	0.001	PASS
Band7	15	21100	75	#0	QPSK	NV	-10	4.46	0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	0	0.24	0.000	PASS
Band7	15	21100	75	#0	QPSK	NV	10	-0.93	0.000	PASS
Band7	15	21100	75	#0	QPSK	NV	20	-0.27	0.000	PASS
Band7	15	21100	75	#0	QPSK	NV	30	0.76	0.000	PASS
Band7	15	21100	75	#0	QPSK	NV	40	4.46	0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	50	3.75	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	-30	-6.01	-0.002	PASS
Band7	15	21375	75	#0	QPSK	NV	-20	3.82	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	-10	2.02	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	0	-2.22	-0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	10	1.17	0.000	PASS
Band7	15	21375	75	#0	QPSK	NV	20	2.23	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	30	5.92	0.002	PASS
Band7	15	21375	75	#0	QPSK	NV	40	2.89	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	50	1.56	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	-30	-27.07	-0.011	PASS
Band7	20	20850	100	#0	QPSK	NV	-20	8.77	0.003	PASS
Band7	20	20850	100	#0	QPSK	NV	-10	7.47	0.003	PASS
Band7	20	20850	100	#0	QPSK	NV	0	6.74	0.003	PASS
Band7	20	20850	100	#0	QPSK	NV	10	5.85	0.002	PASS
Band7	20	20850	100	#0	QPSK	NV	20	6.49	0.003	PASS
Band7	20	20850	100	#0	QPSK	NV	30	3.08	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	40	1.54	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	50	0.92	0.000	PASS
Band7	20	21100	100	#0	QPSK	NV	-30	-5.15	-0.002	PASS
Band7	20	21100	100	#0	QPSK	NV	-20	-3.26	-0.001	PASS

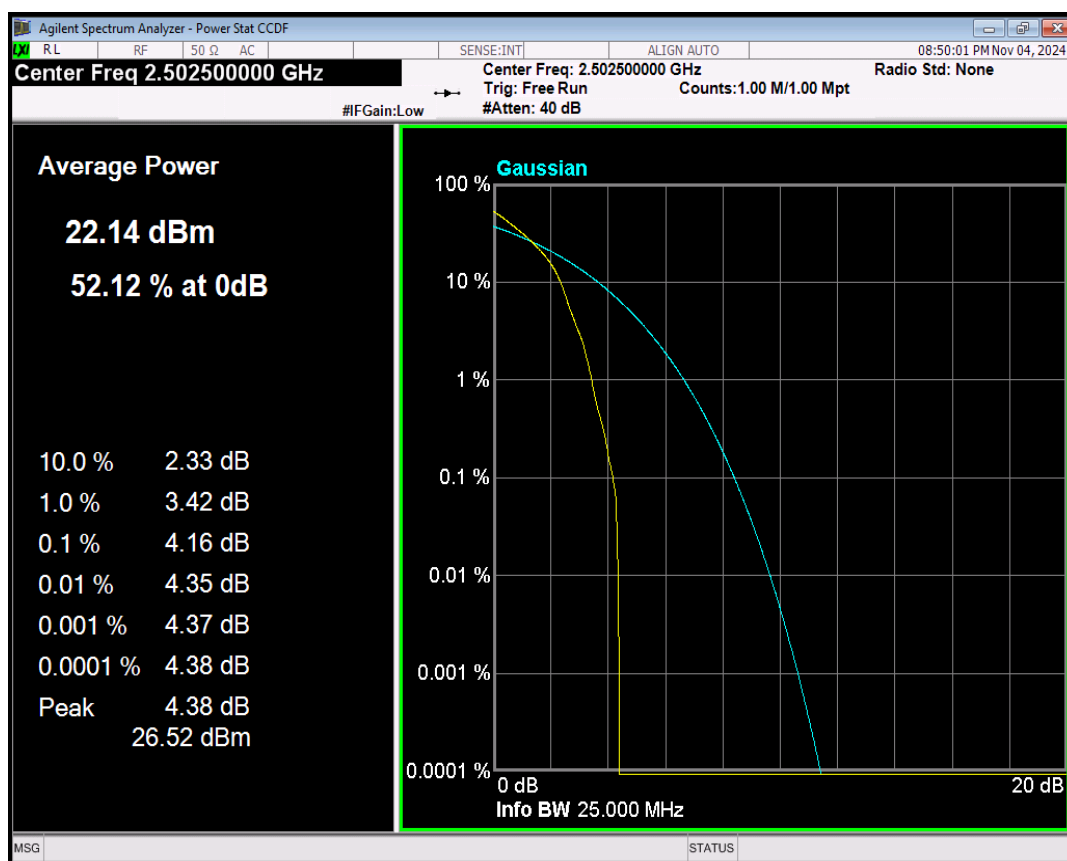
Band7	20	21100	100	#0	QPSK	NV	-10	-2.52	-0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	0	2.26	0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	10	-1.06	0.000	PASS
Band7	20	21100	100	#0	QPSK	NV	20	0.96	0.000	PASS
Band7	20	21100	100	#0	QPSK	NV	30	2.99	0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	40	0.41	0.000	PASS
Band7	20	21100	100	#0	QPSK	NV	50	3.62	0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	-30	-2.76	-0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	-20	3.68	0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	-10	-2.06	-0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	0	0.44	0.000	PASS
Band7	20	21350	100	#0	QPSK	NV	10	1.90	0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	20	-0.86	0.000	PASS
Band7	20	21350	100	#0	QPSK	NV	30	1.22	0.000	PASS
Band7	20	21350	100	#0	QPSK	NV	40	1.59	0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	50	3.16	0.001	PASS



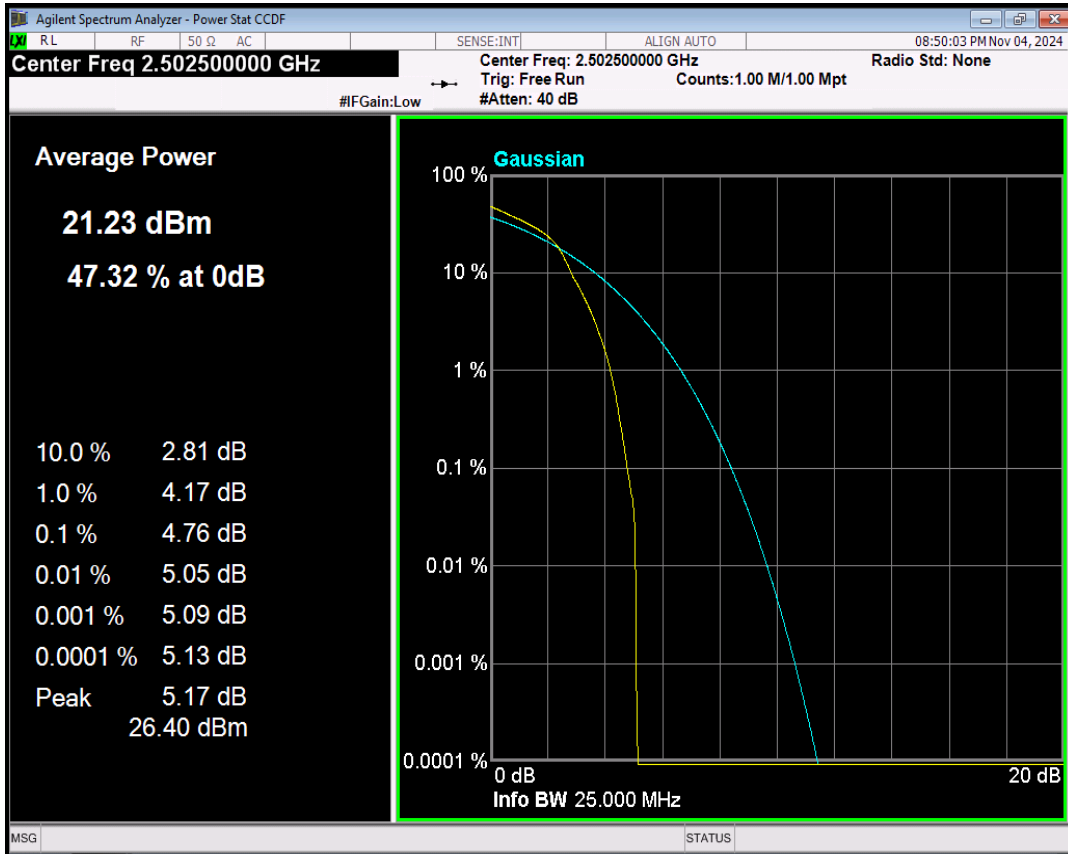
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	20775	1	#0	QPSK	4.16	13	PASS
Band7	5	20775	1	#0	16QAM	4.76	13	PASS
Band7	5	21100	1	#0	QPSK	3.94	13	PASS
Band7	5	21100	1	#0	16QAM	4.54	13	PASS
Band7	5	21425	1	#0	QPSK	4.21	13	PASS
Band7	5	21425	1	#0	16QAM	4.79	13	PASS
Band7	10	20800	1	#0	QPSK	3.96	13	PASS
Band7	10	21100	1	#0	QPSK	4.17	13	PASS
Band7	10	21400	1	#0	QPSK	4.64	13	PASS
Band7	15	20825	1	#0	QPSK	3.94	13	PASS
Band7	15	21100	1	#0	QPSK	4.39	13	PASS
Band7	15	21375	1	#0	QPSK	4.68	13	PASS
Band7	20	20850	1	#0	QPSK	3.99	13	PASS
Band7	20	21100	1	#0	QPSK	4.46	13	PASS
Band7	20	21350	1	#0	QPSK	4.52	13	PASS

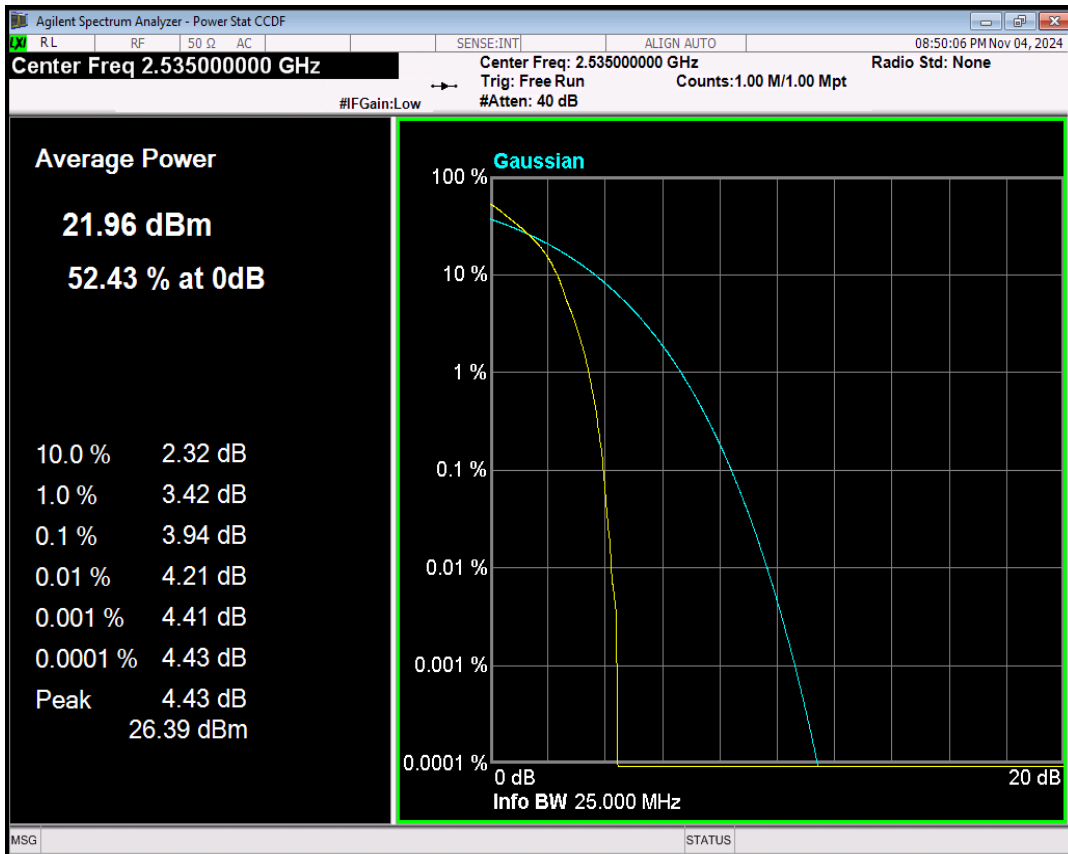
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



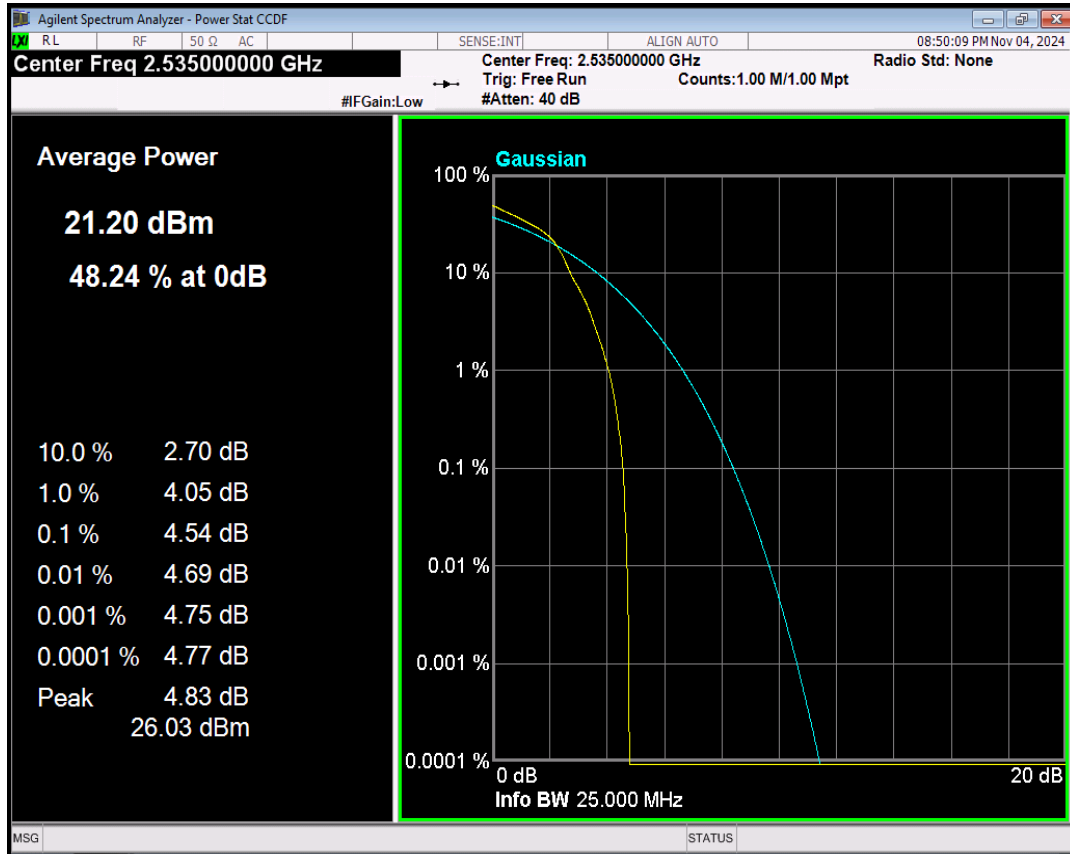
Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



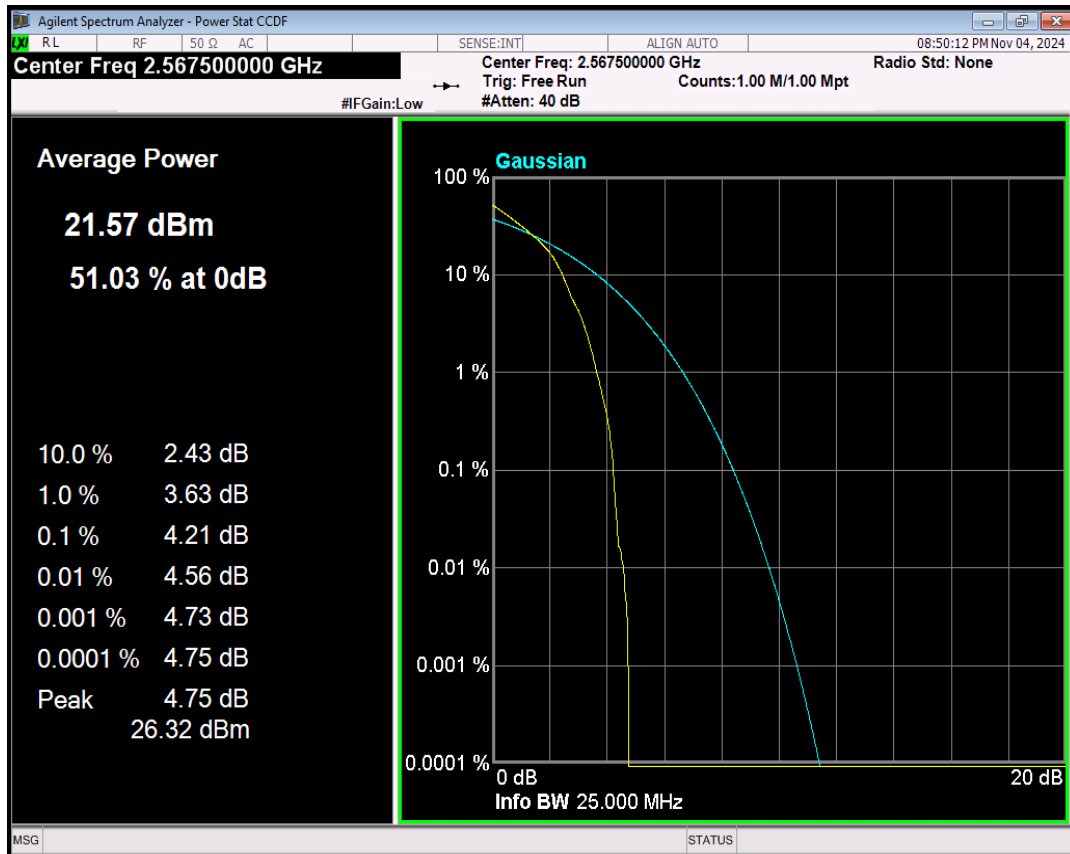
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



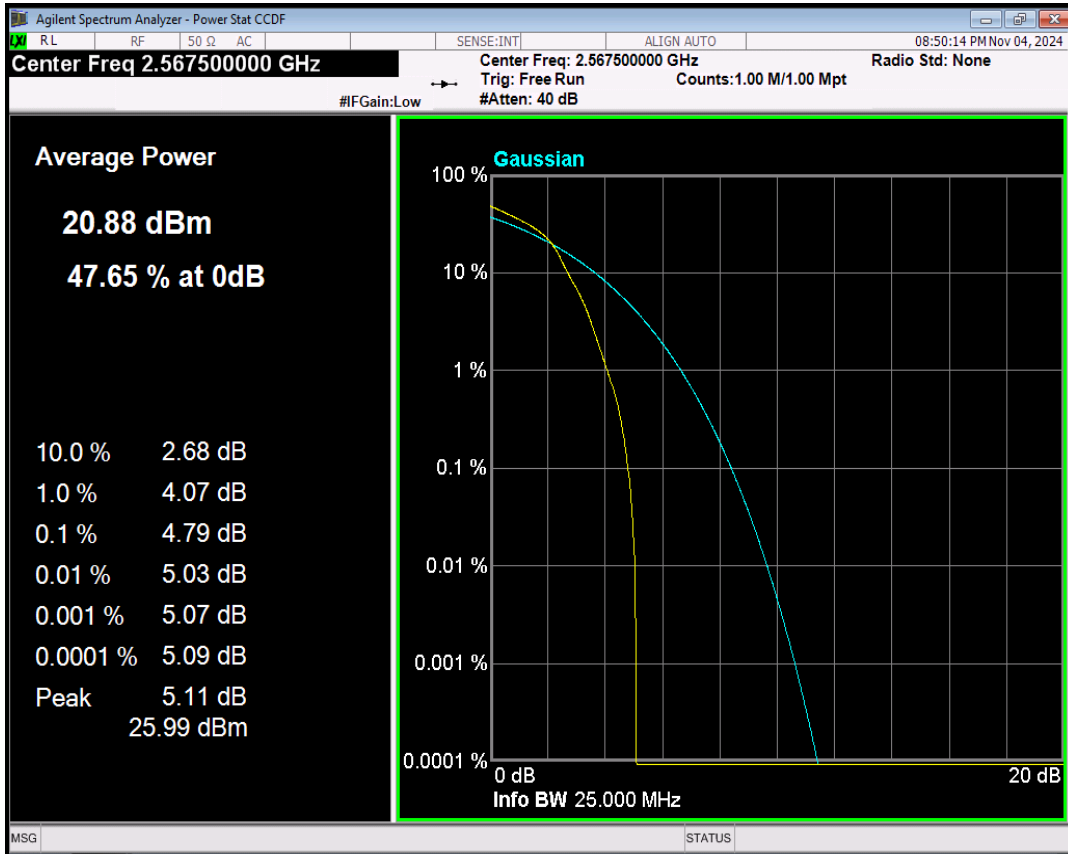
Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



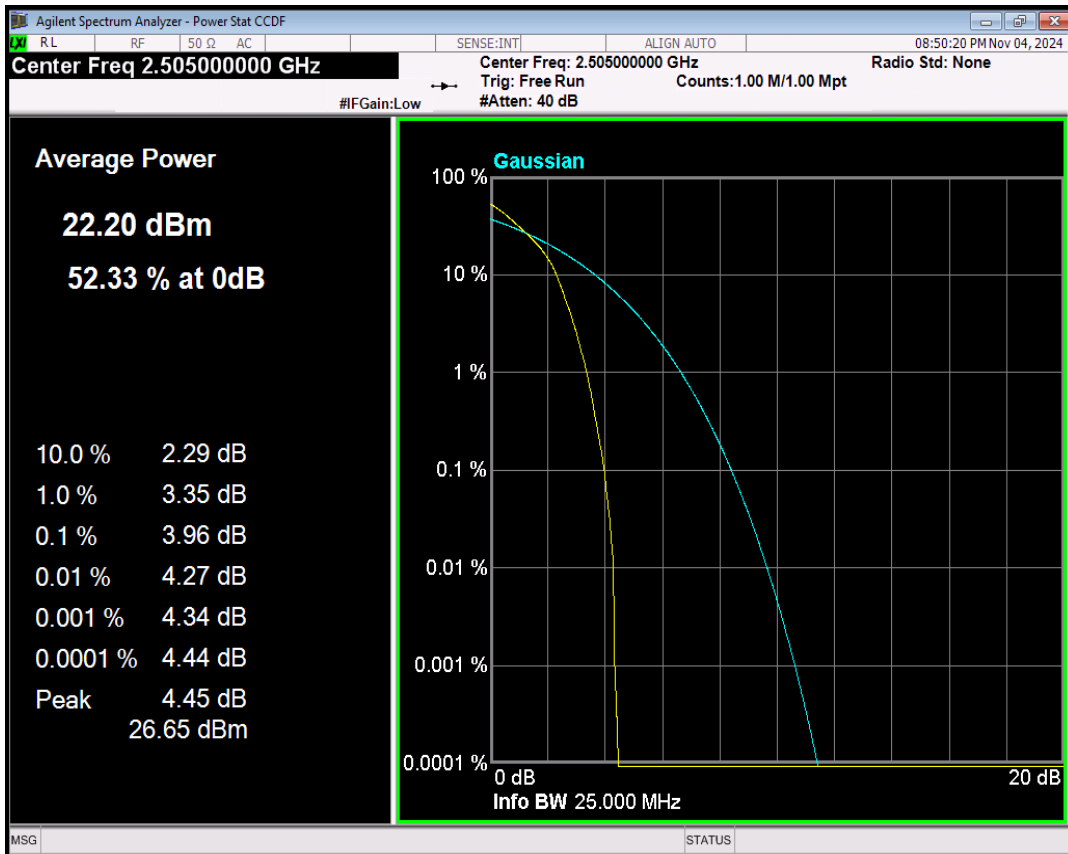
Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



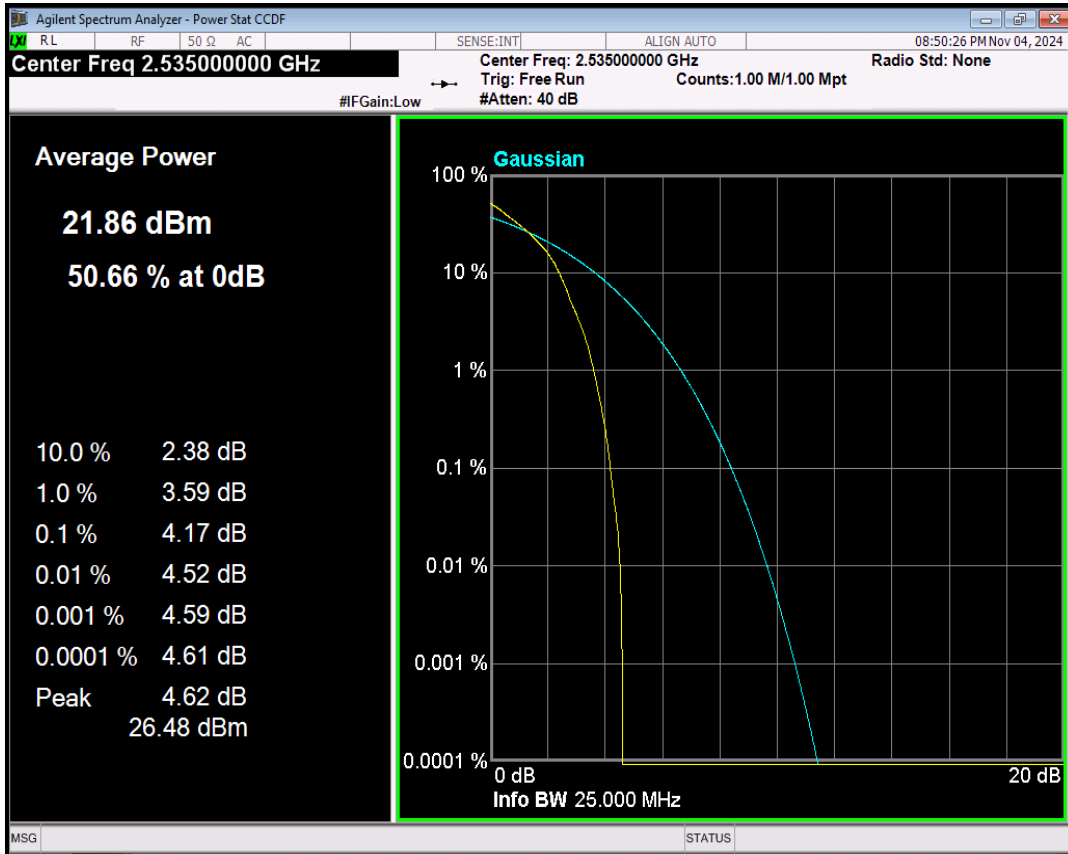
Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0



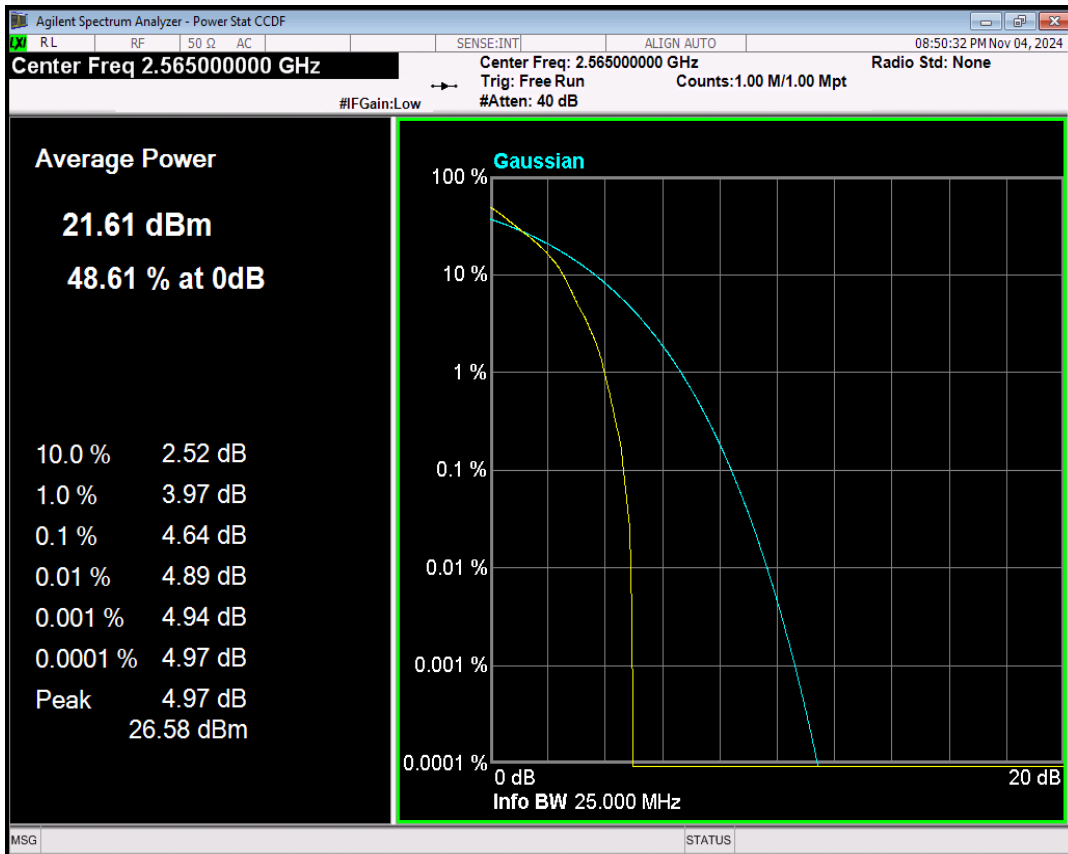
Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



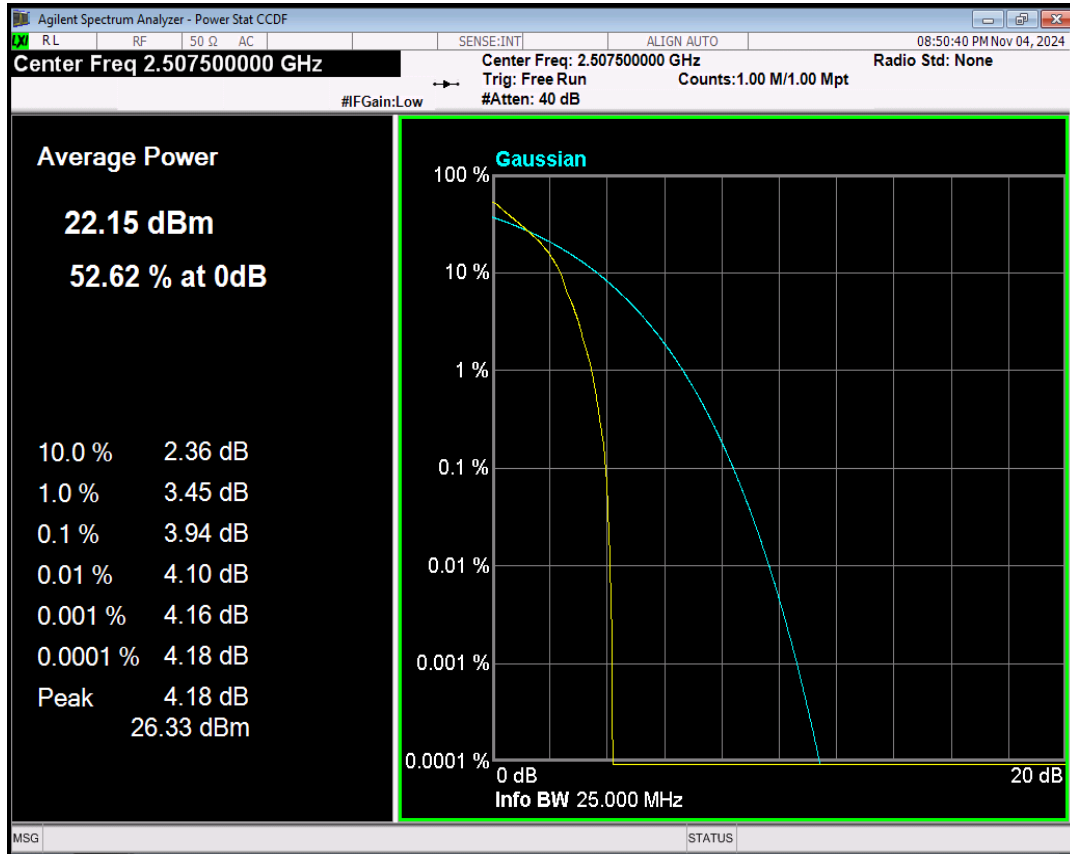
Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



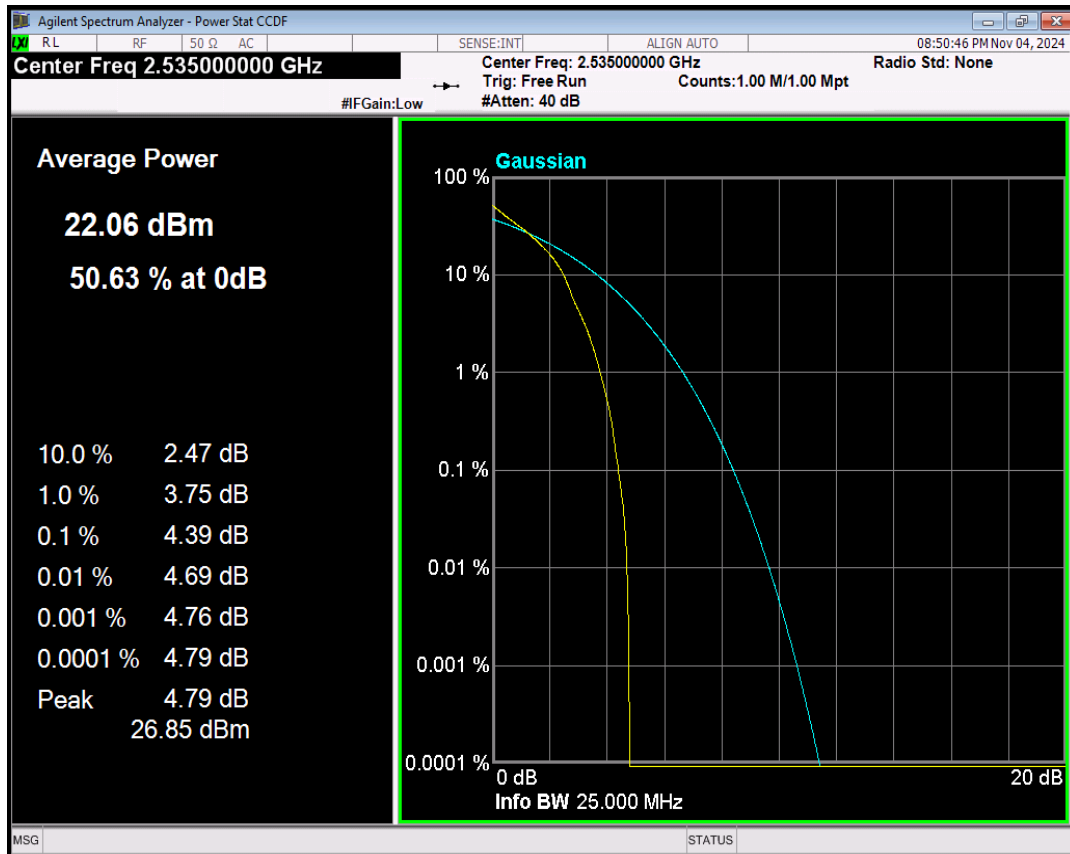
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



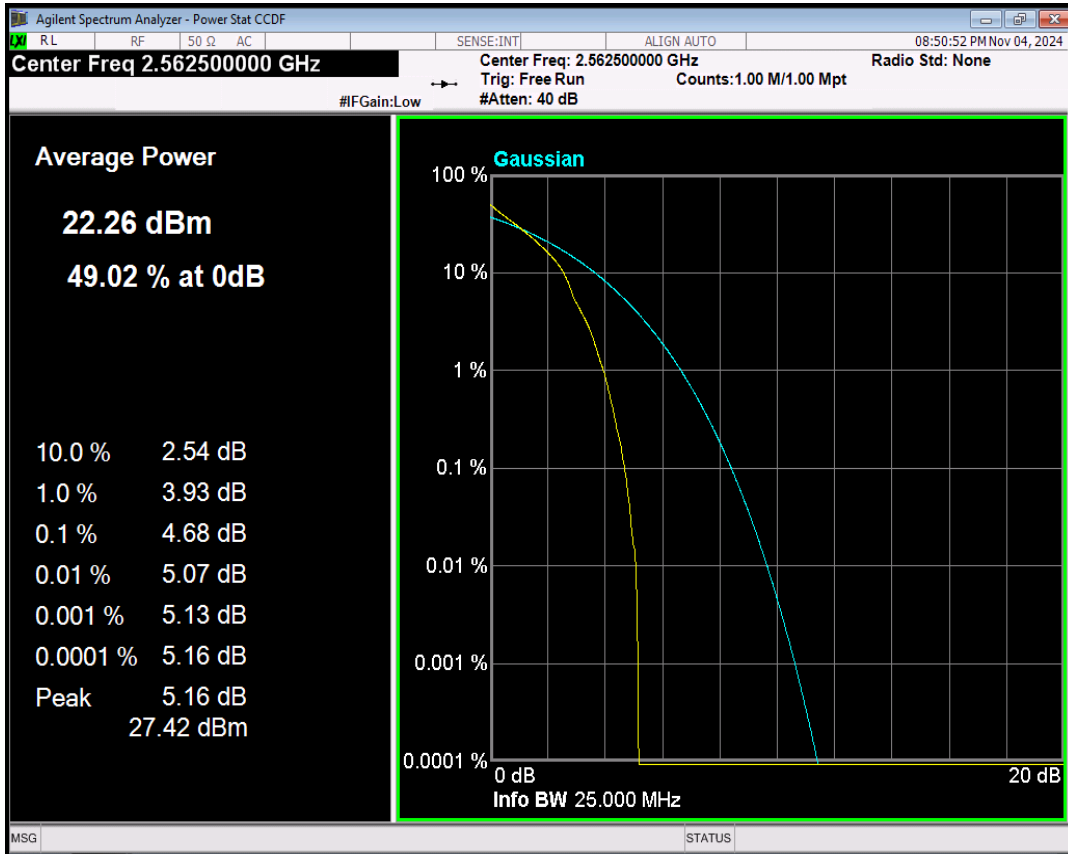
Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0



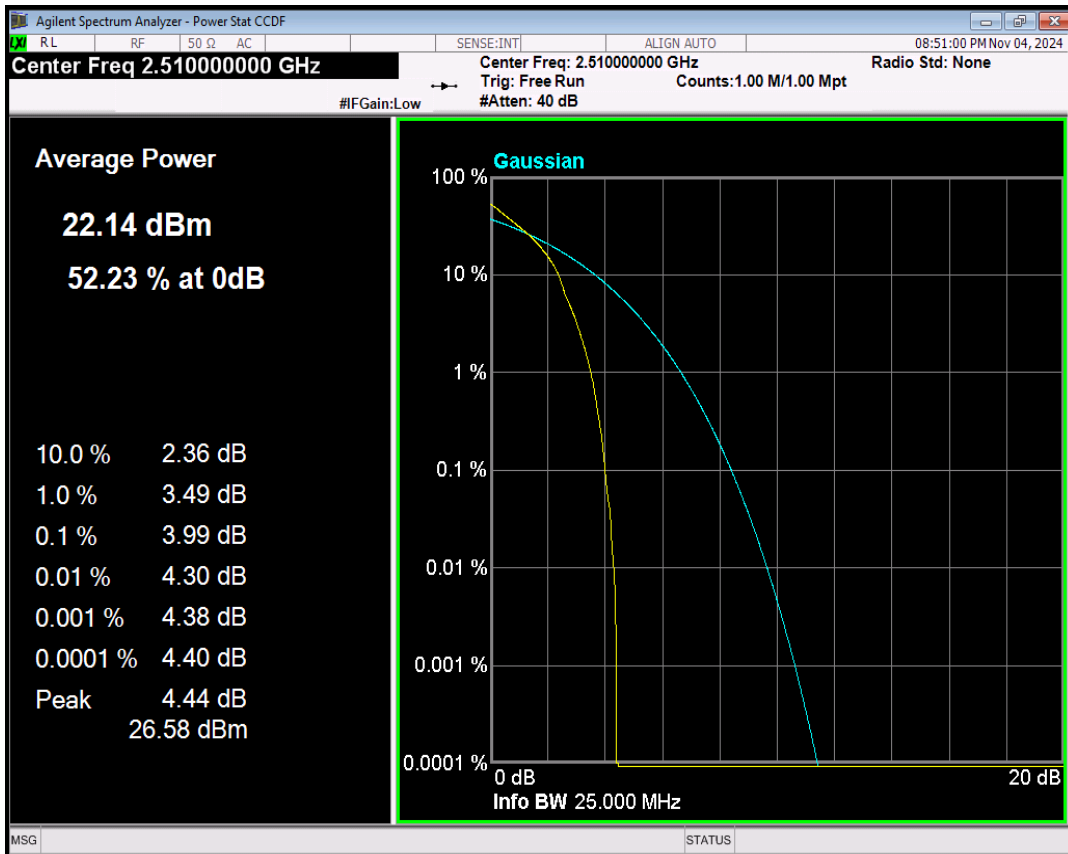
Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



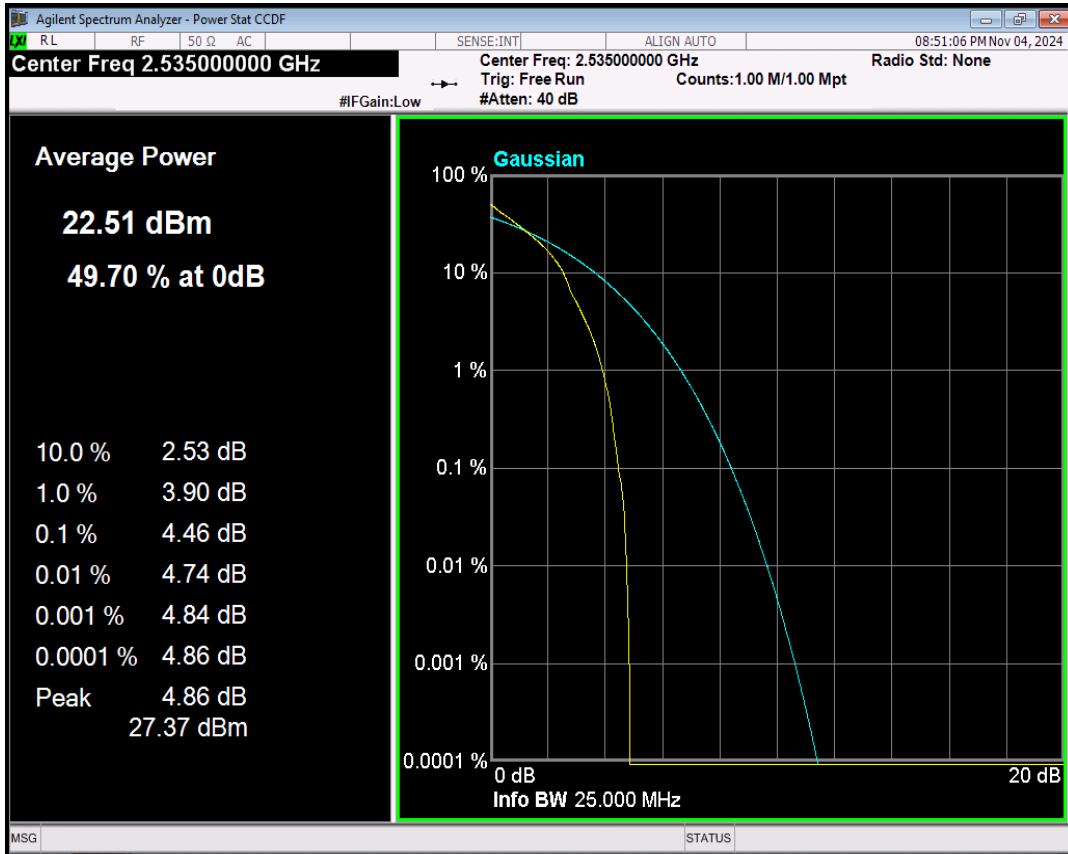
Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0



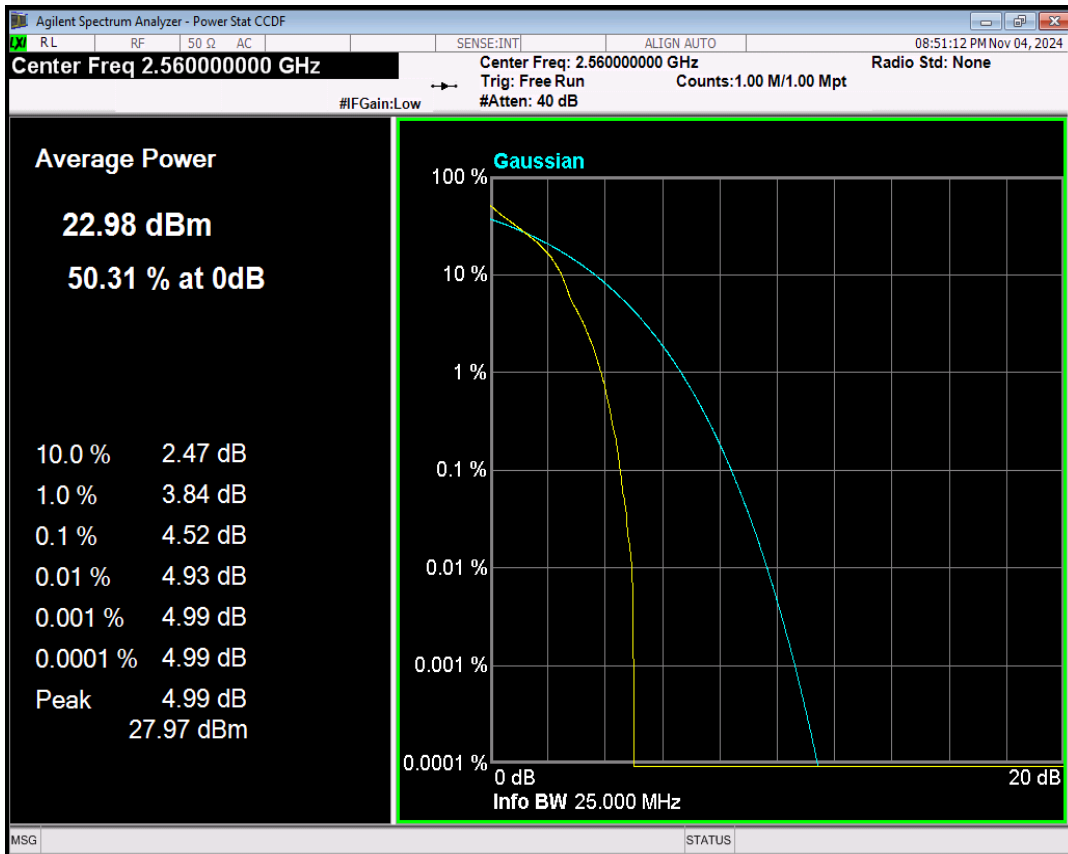
Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



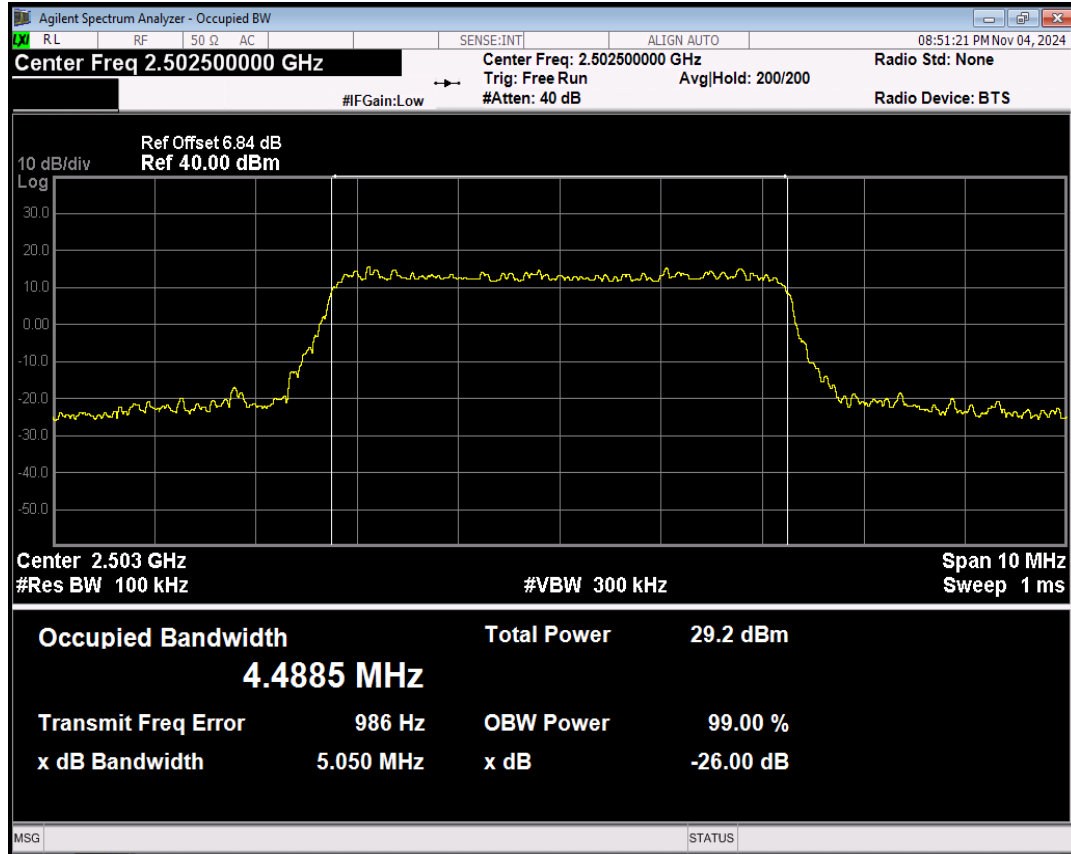
Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



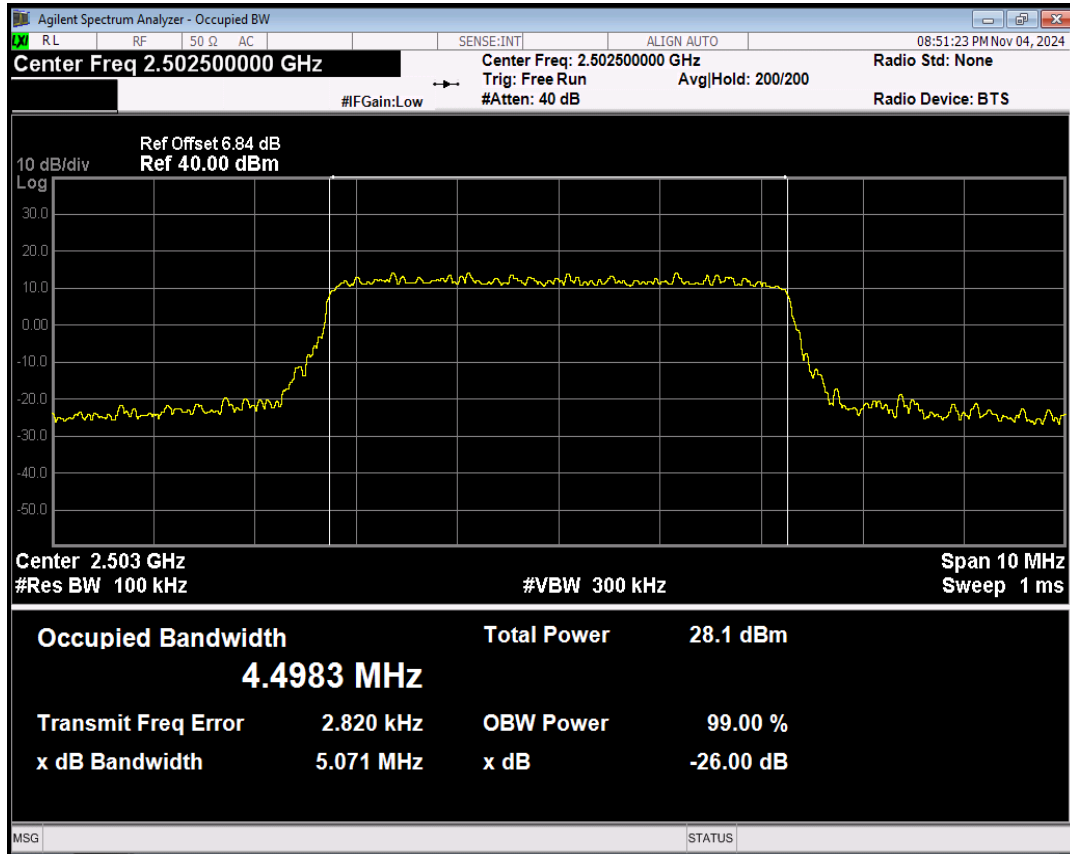
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QPSK	4.488	5.050	PASS
Band7	5	20775	25	#0	16QAM	4.498	5.071	PASS
Band7	5	21100	25	#0	QPSK	4.501	5.097	PASS
Band7	5	21100	25	#0	16QAM	4.491	5.127	PASS
Band7	5	21425	25	#0	QPSK	4.485	5.086	PASS
Band7	5	21425	25	#0	16QAM	4.491	5.061	PASS
Band7	10	20800	50	#0	QPSK	8.918	9.706	PASS
Band7	10	21100	50	#0	QPSK	8.950	9.609	PASS
Band7	10	21400	50	#0	QPSK	8.943	9.623	PASS
Band7	15	20825	75	#0	QPSK	13.491	16.423	PASS
Band7	15	21100	75	#0	QPSK	13.511	16.037	PASS
Band7	15	21375	75	#0	QPSK	13.525	15.921	PASS
Band7	20	20850	100	#0	QPSK	18.004	21.205	PASS
Band7	20	21100	100	#0	QPSK	17.988	20.613	PASS
Band7	20	21350	100	#0	QPSK	18.029	20.803	PASS

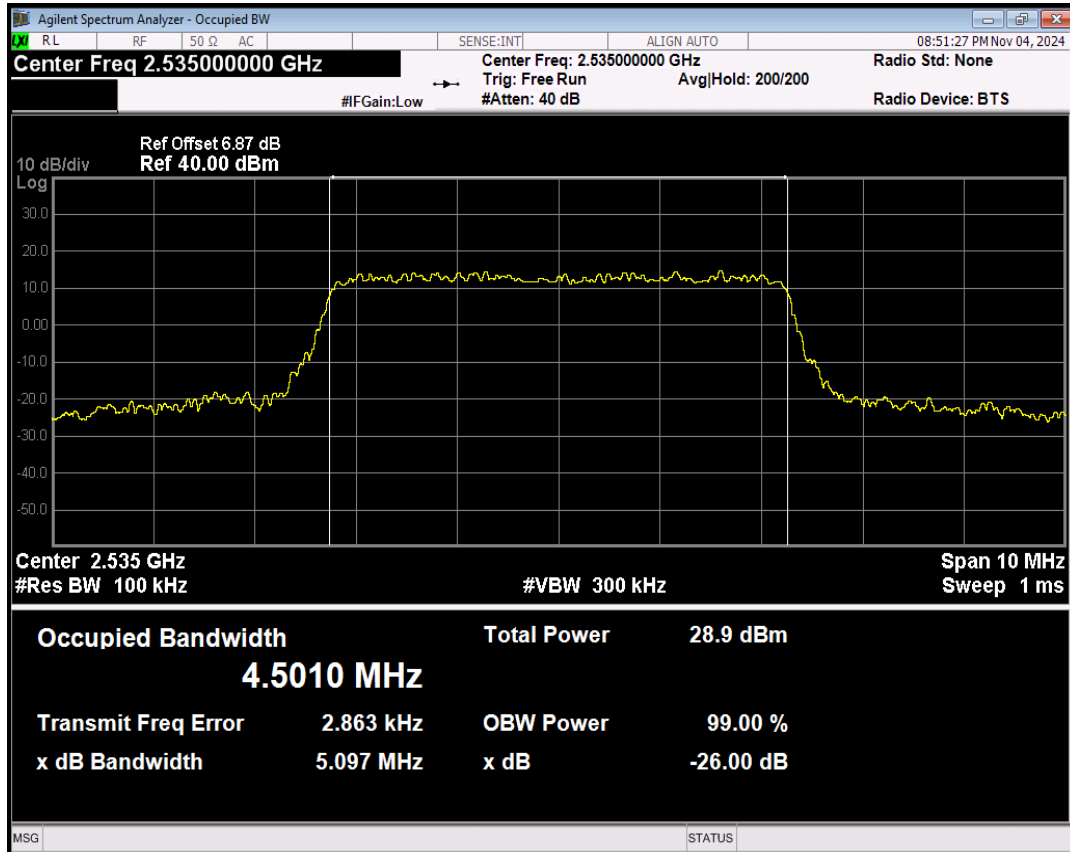
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



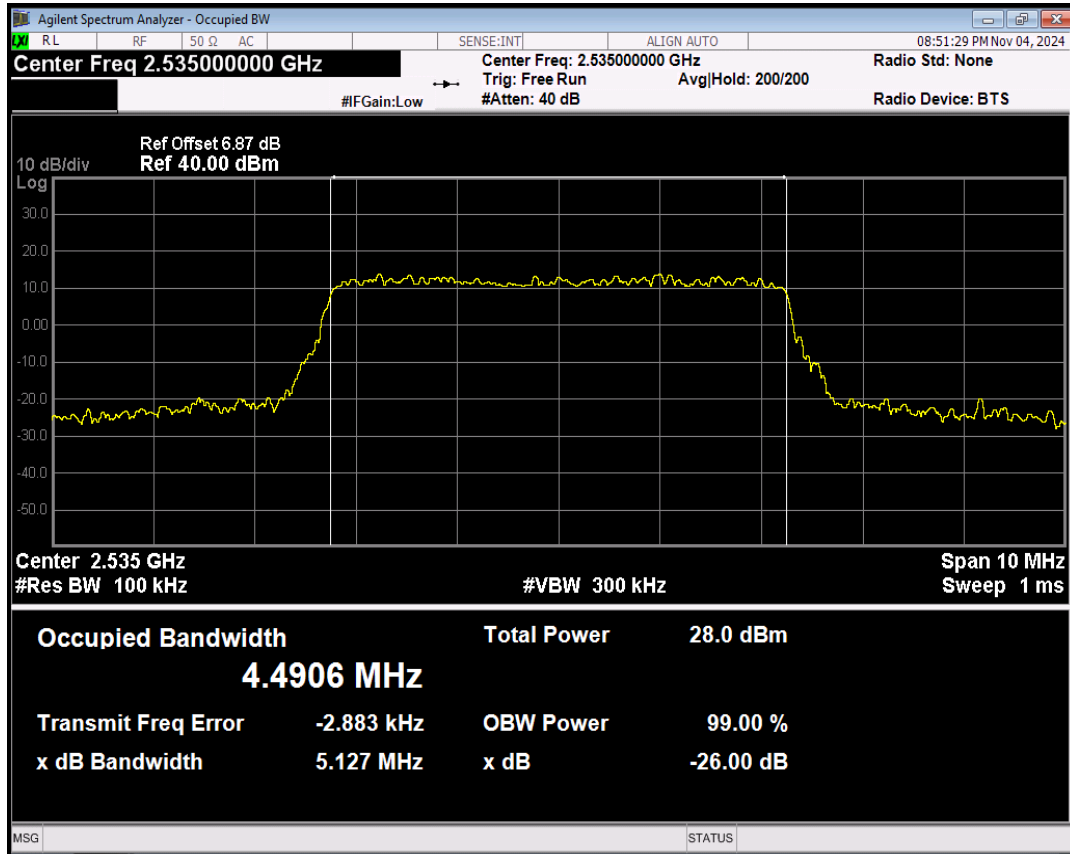
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



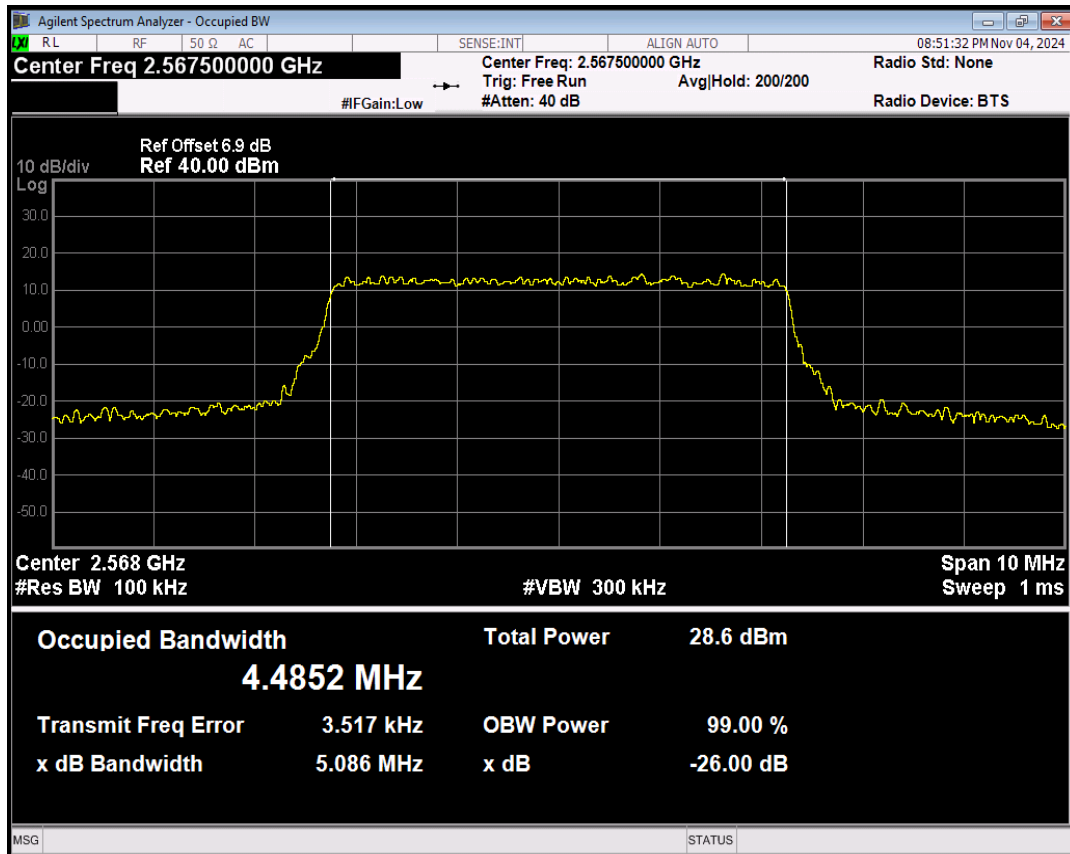
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



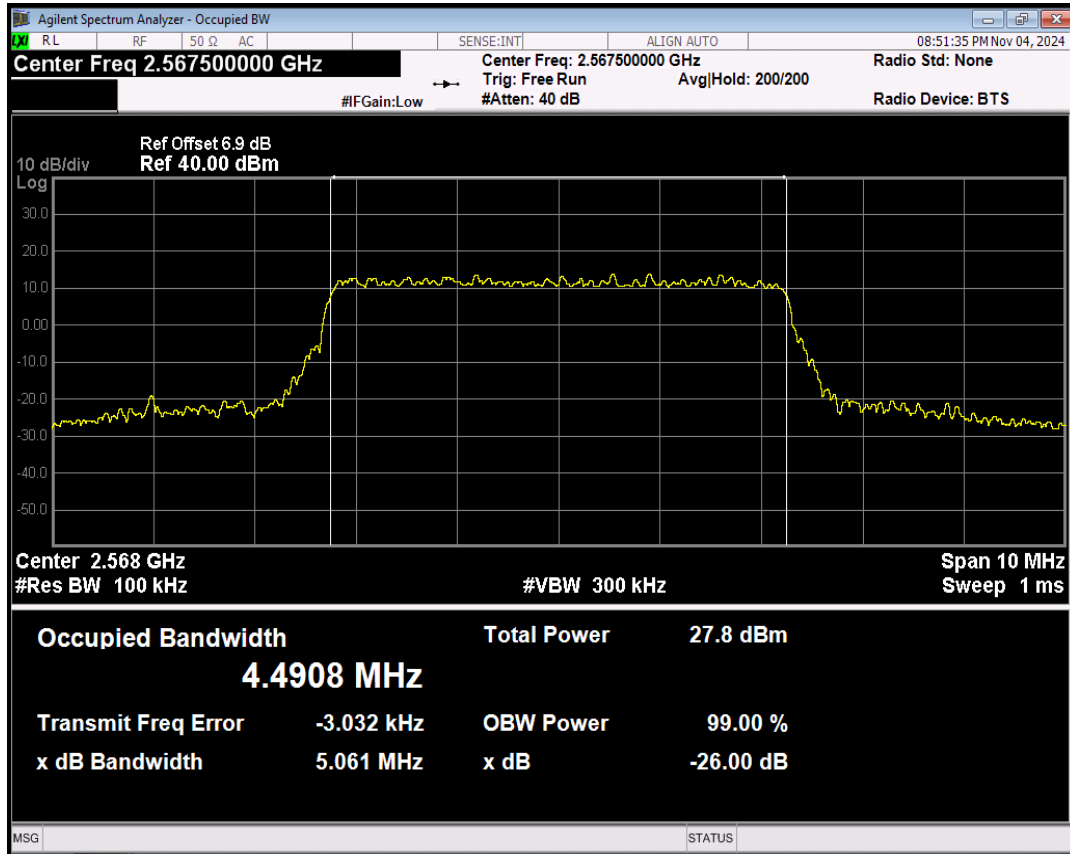
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



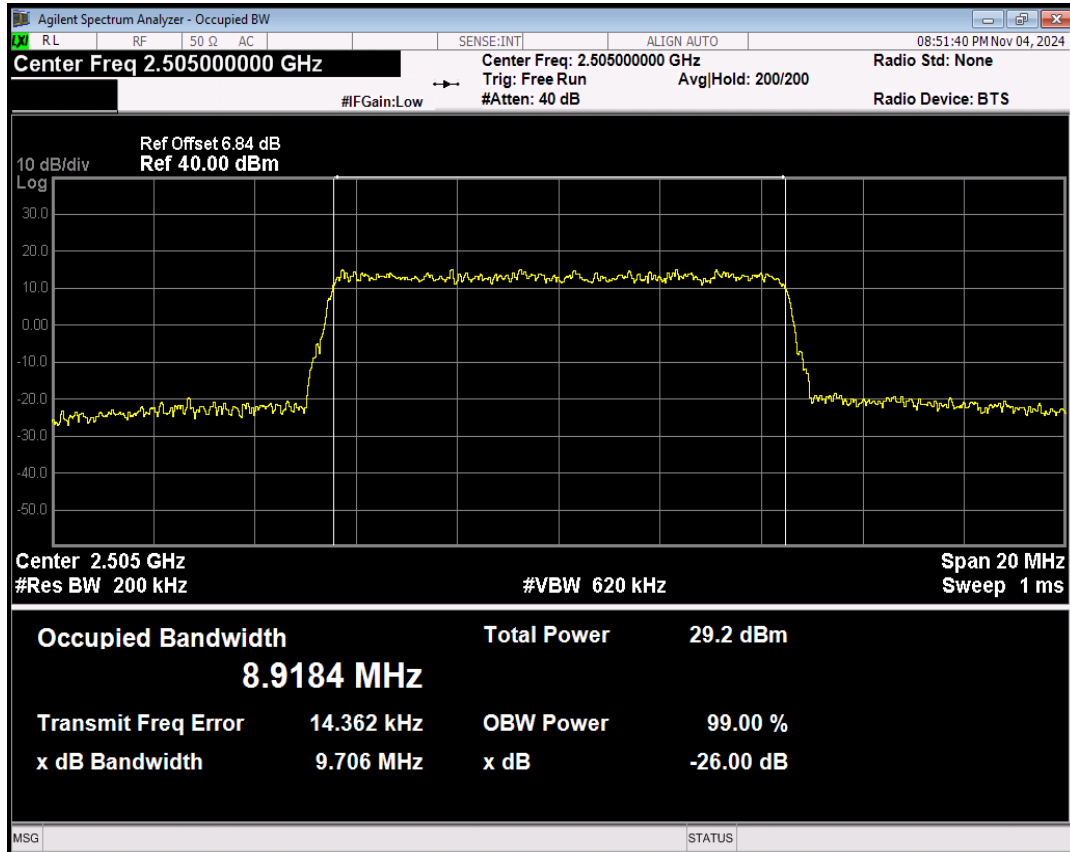
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



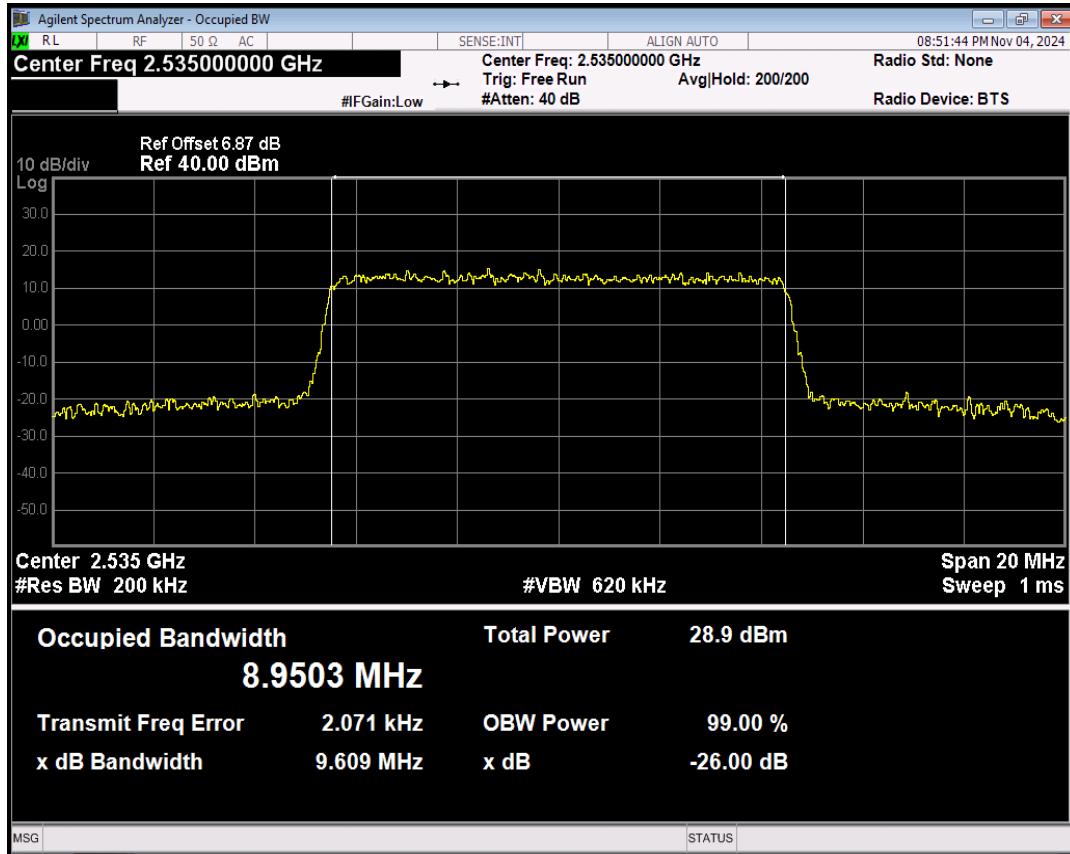
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



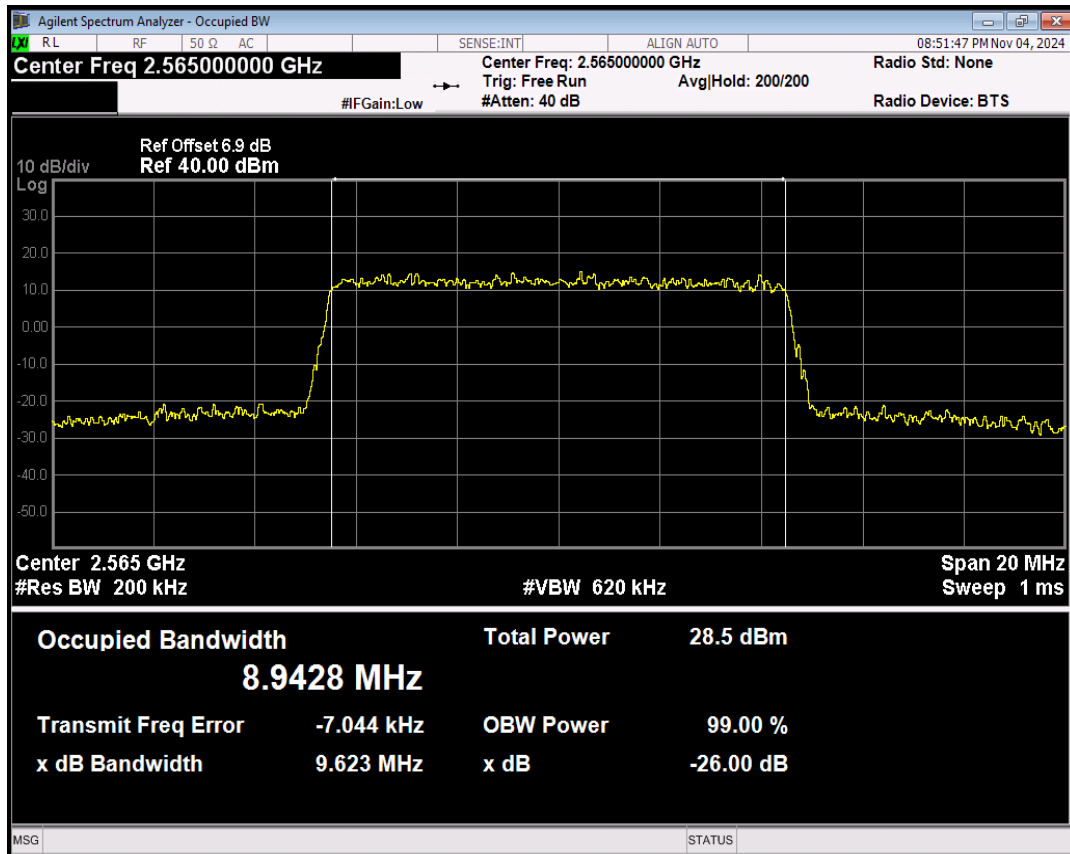
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



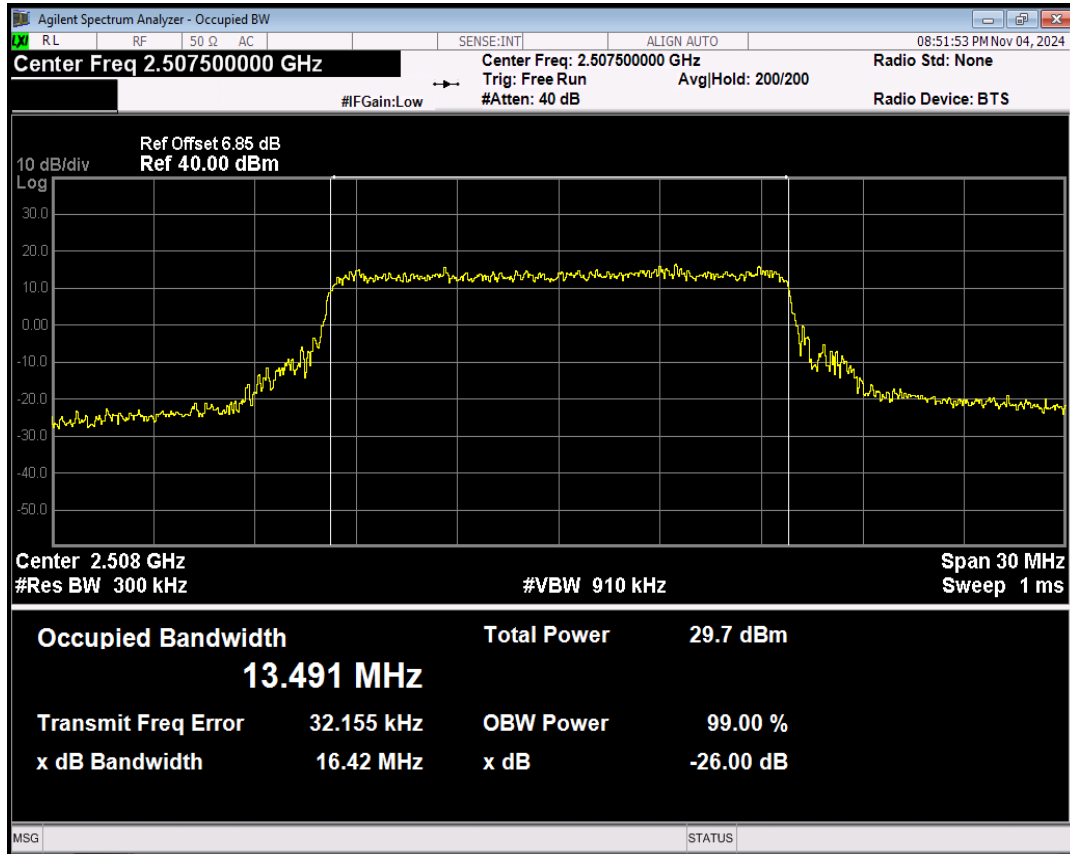
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



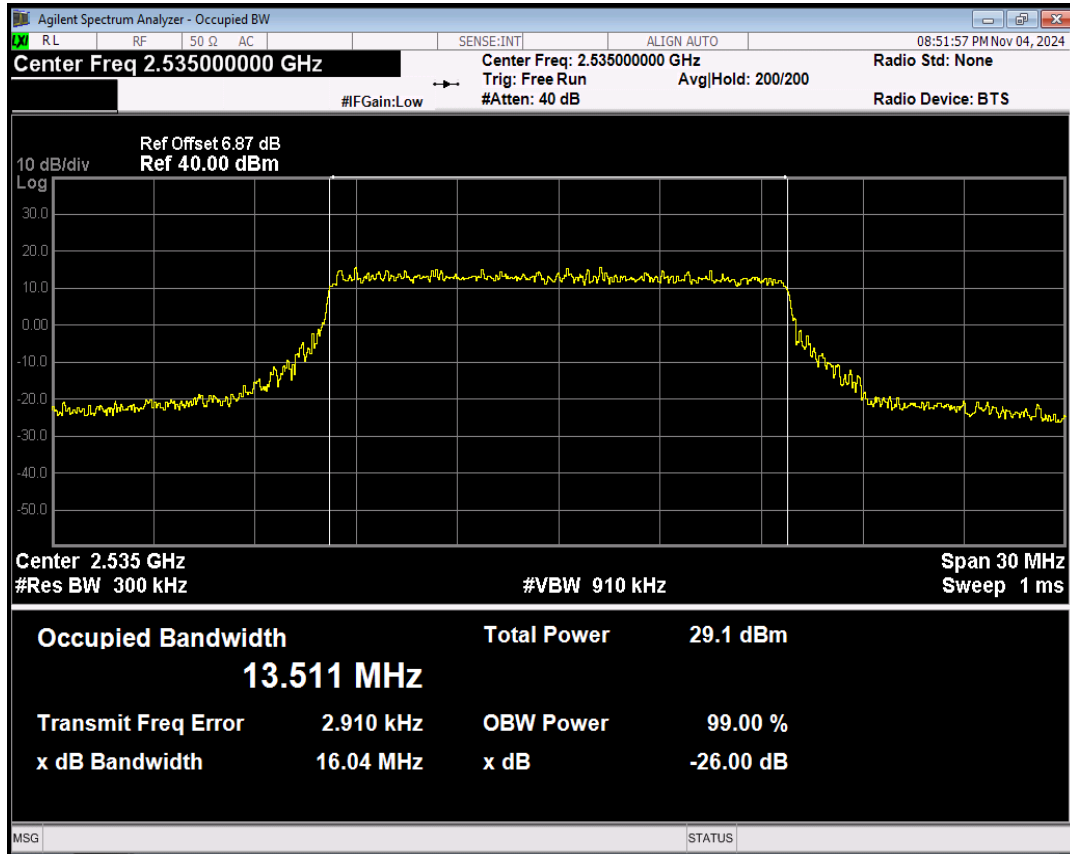
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



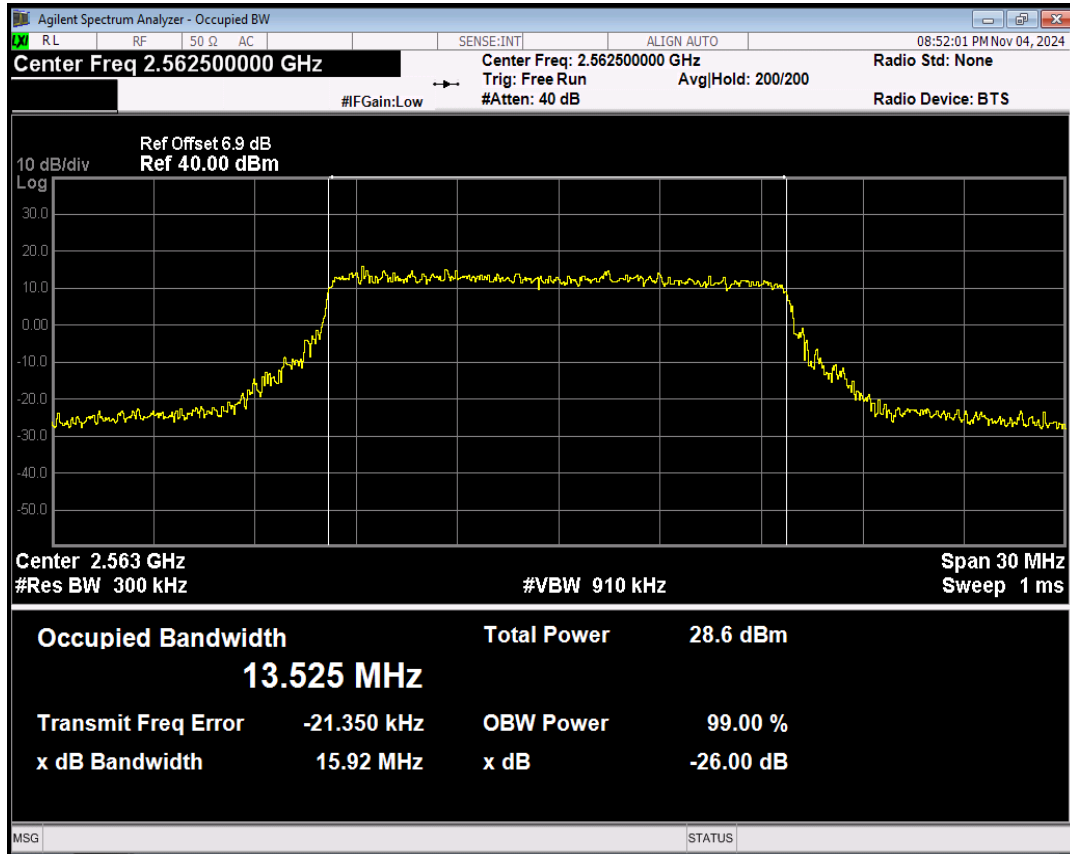
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



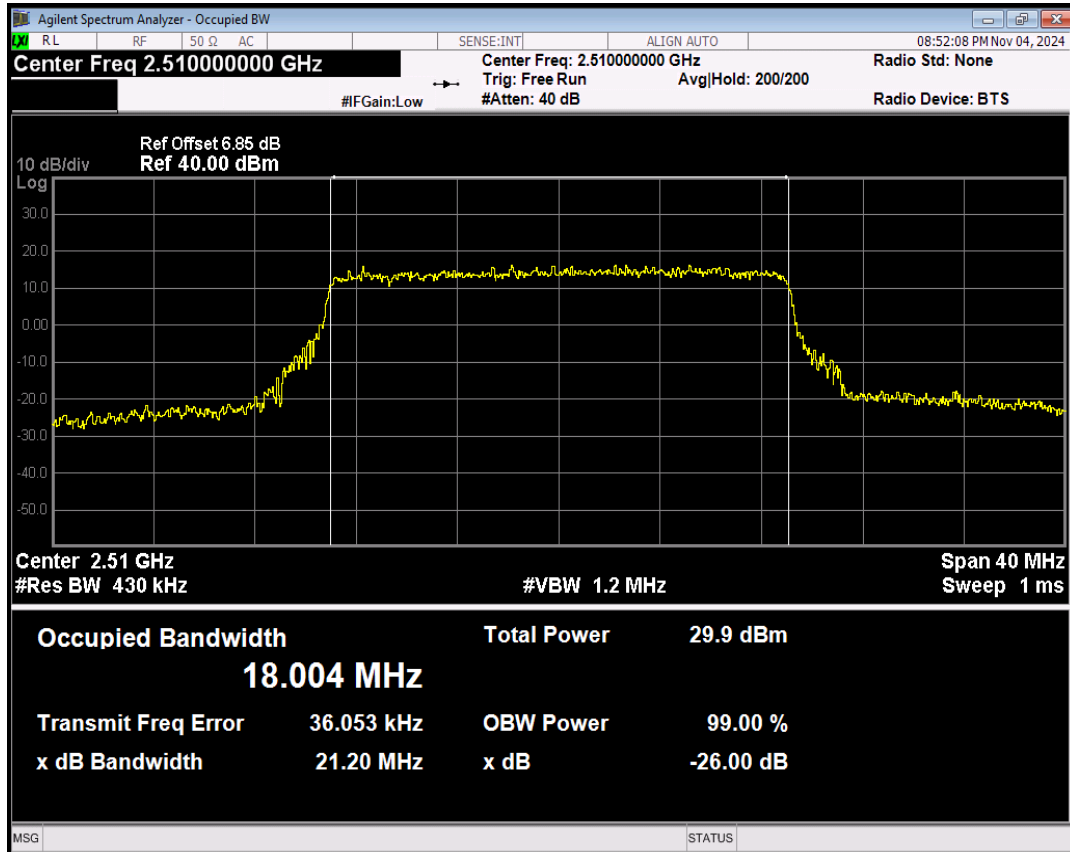
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



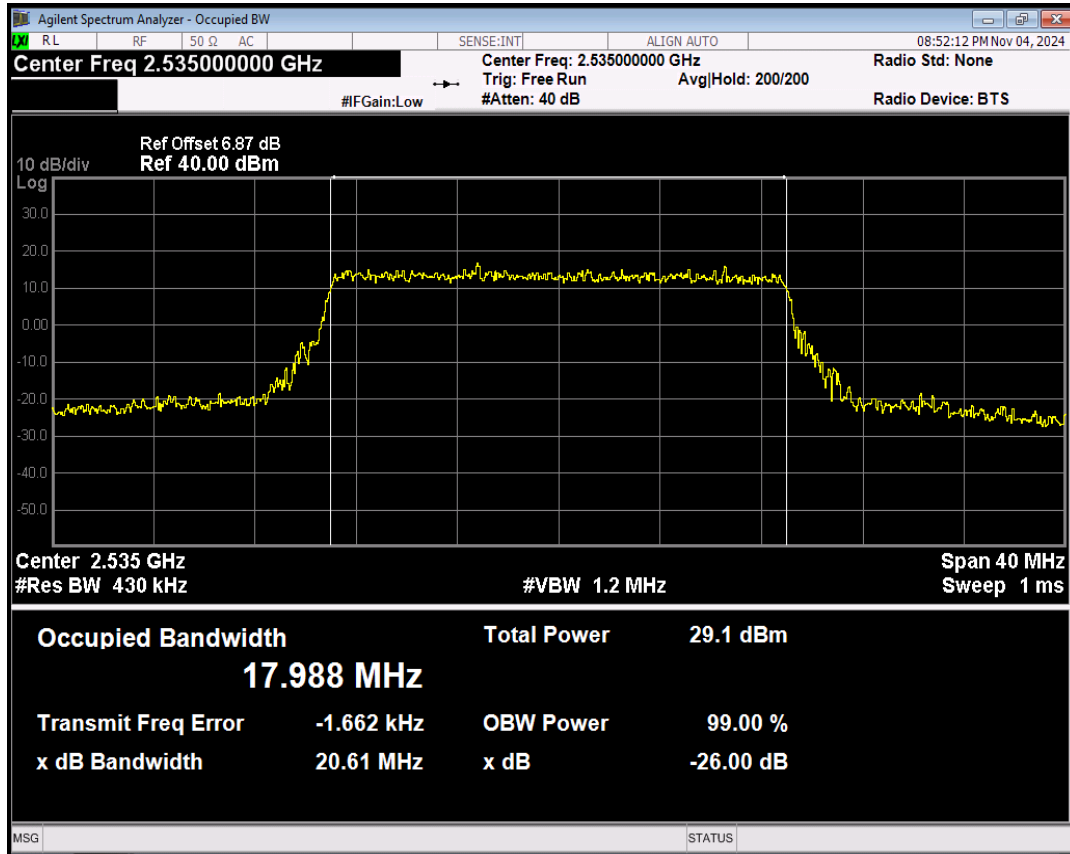
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



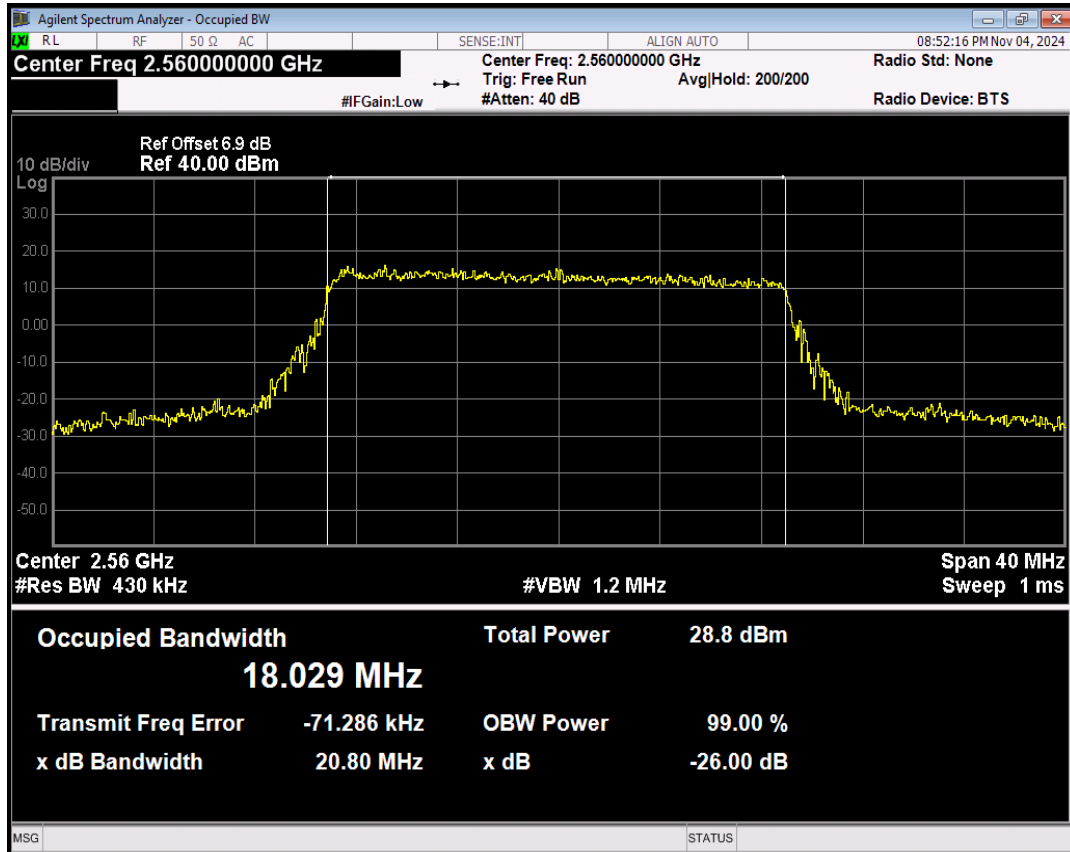
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



Band 7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



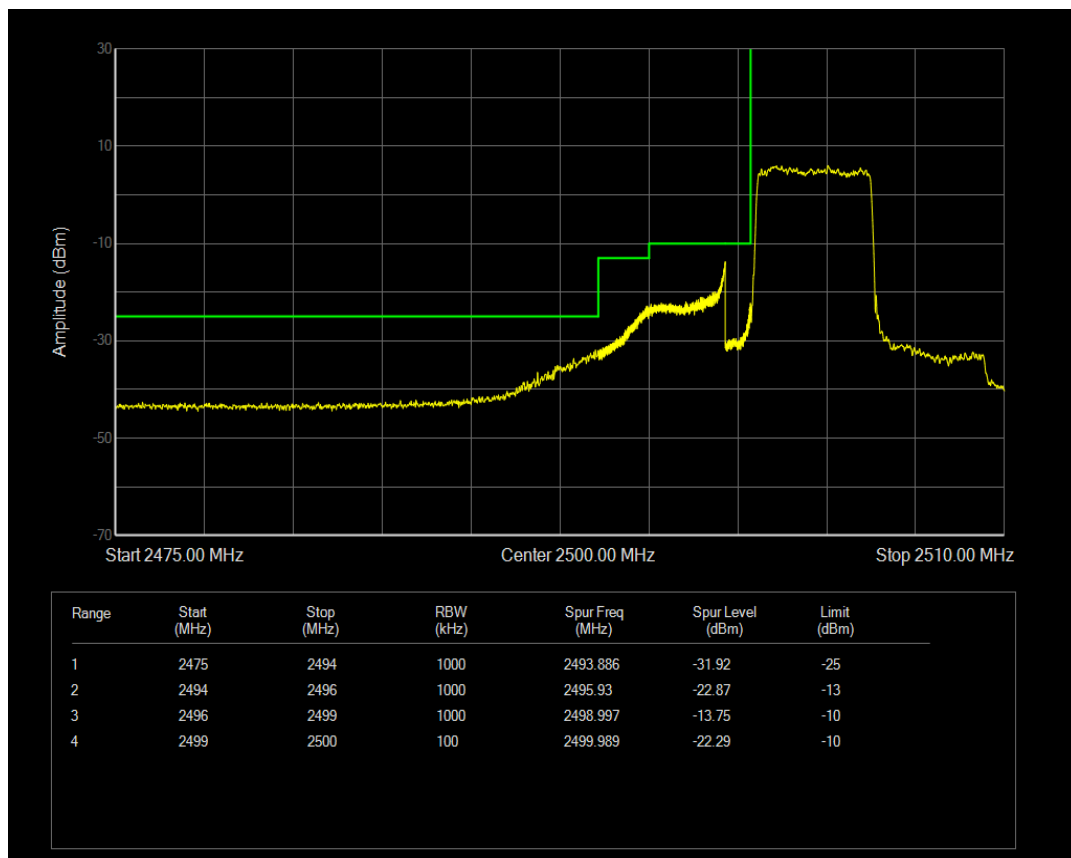
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



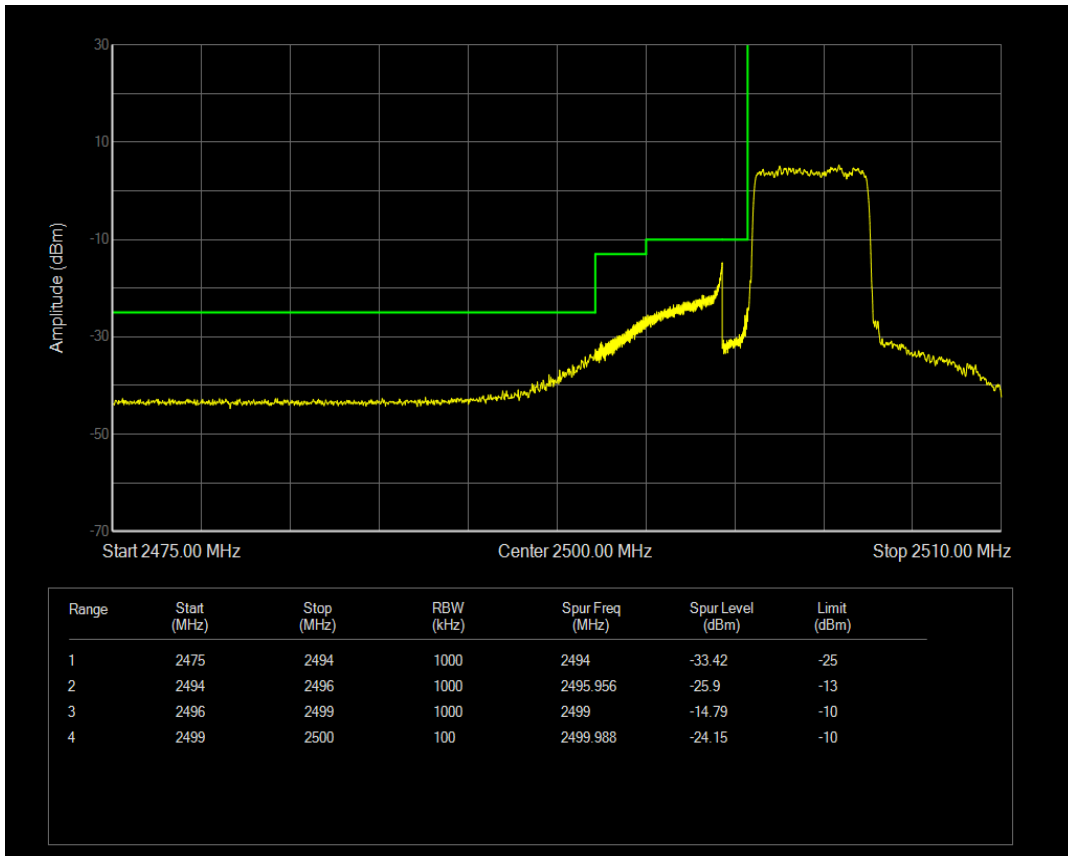
Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	2499.00	-13.75	-10	PASS
Band7	5	20775	25	#0	16QAM	2499.00	-14.79	-10	PASS
Band7	5	21425	25	#0	QPSK	2571.02	-15.79	-10	PASS
Band7	5	21425	25	#0	16QAM	2571.00	-16.52	-10	PASS
Band7	10	20800	50	#0	QPSK	2489.63	-33.43	-25	PASS
Band7	10	21400	50	#0	QPSK	2580.21	-37.07	-25	PASS
Band7	15	20825	75	#0	QPSK	2498.96	-20.41	-10	PASS
Band7	15	21375	75	#0	QPSK	2571.04	-21.44	-10	PASS
Band7	20	20850	100	#0	QPSK	2499.88	-21.24	-10	PASS
Band7	20	21350	100	#0	QPSK	2570.04	-23.77	-10	PASS

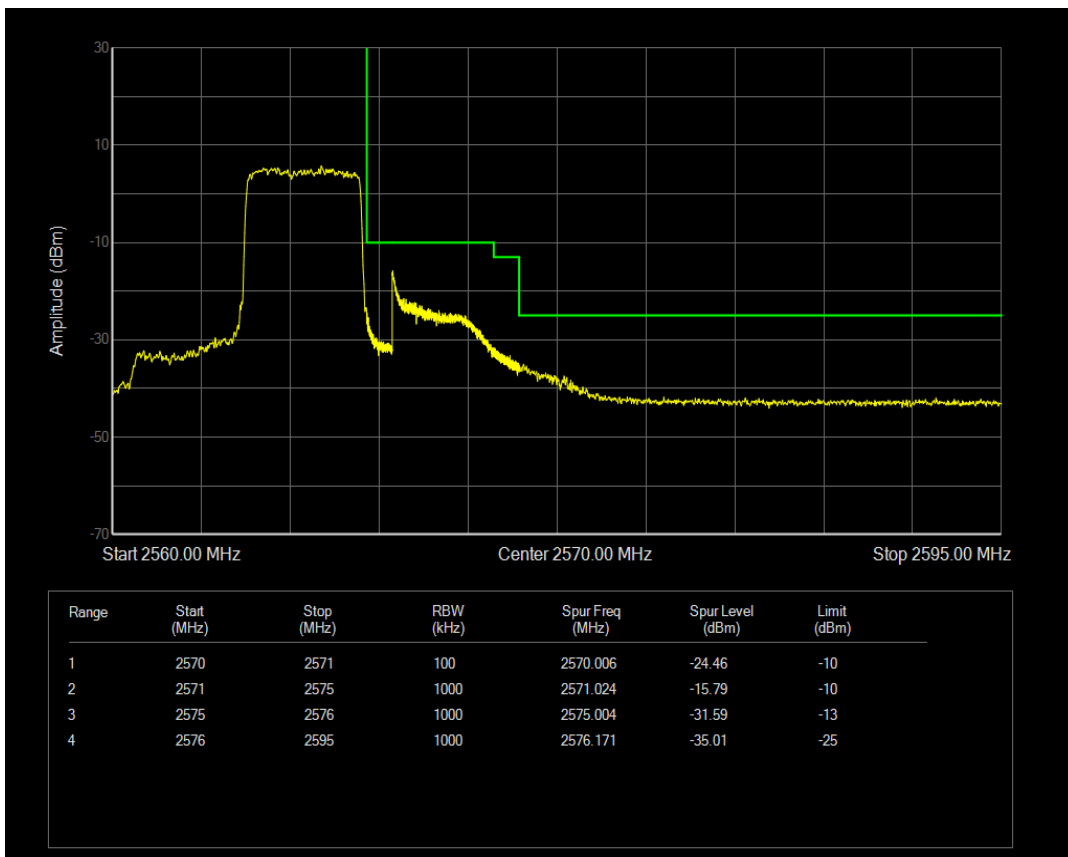
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



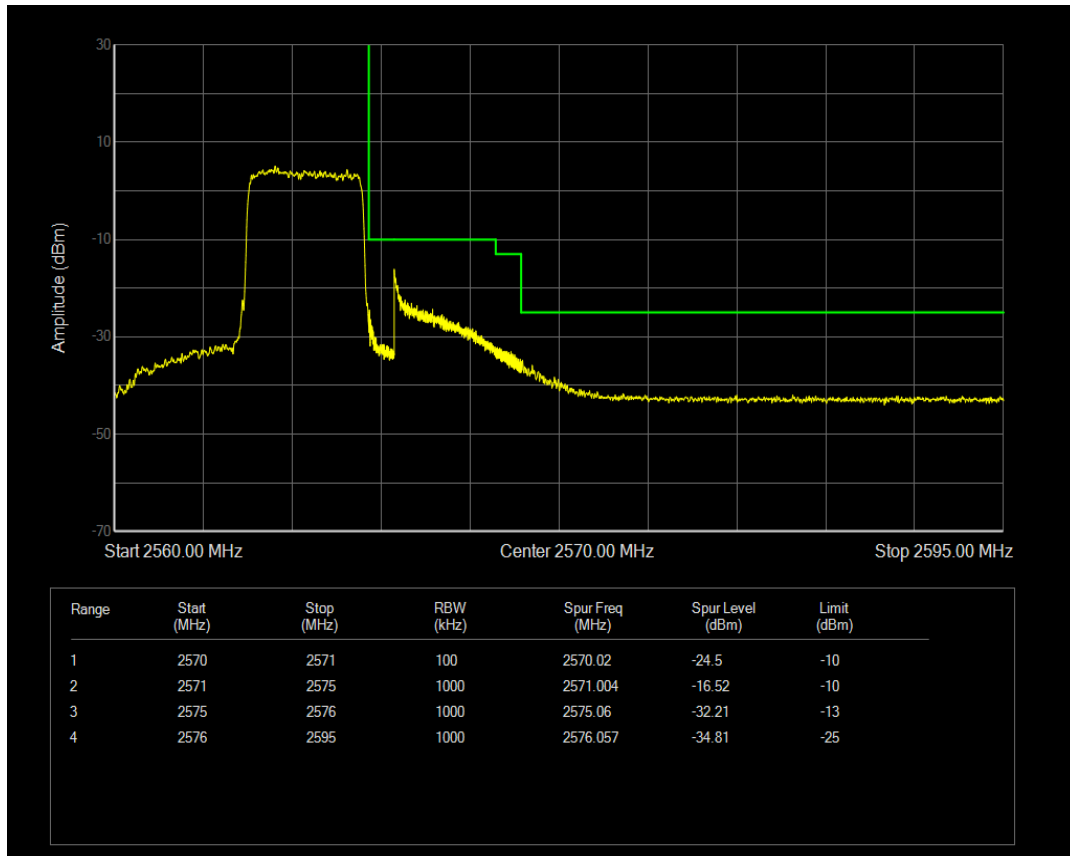
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



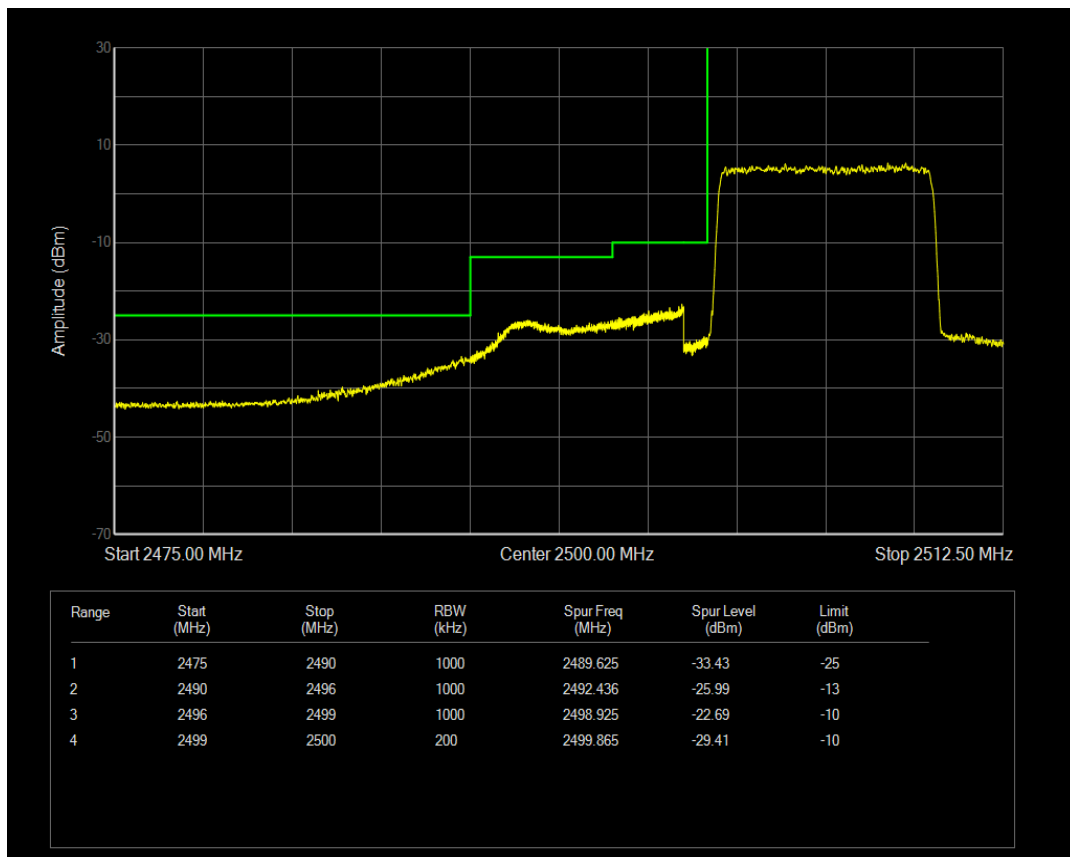
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



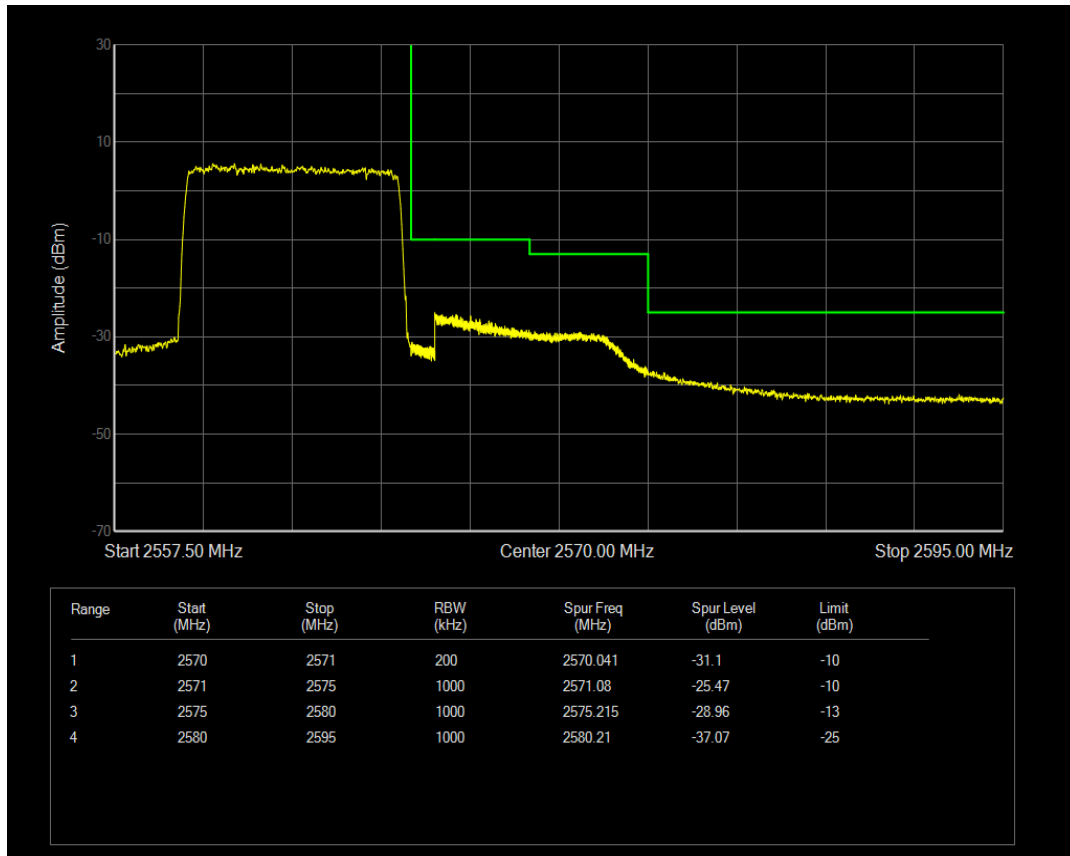
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



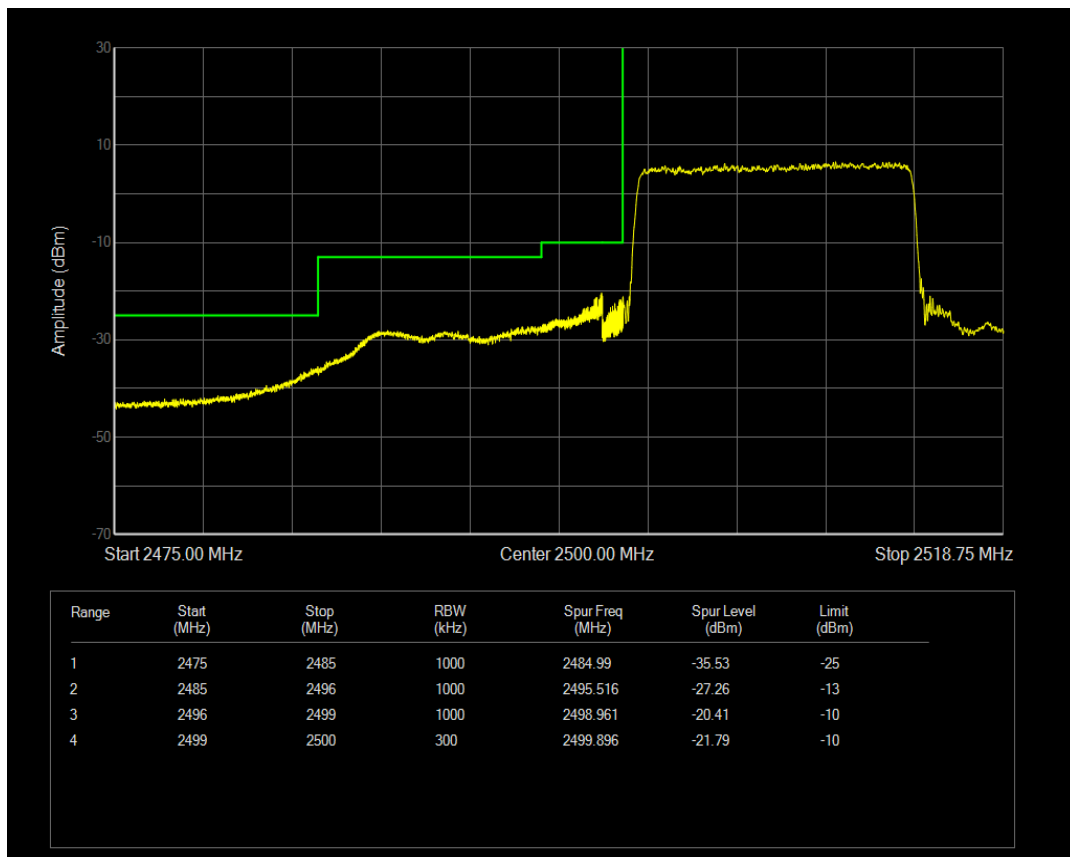
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



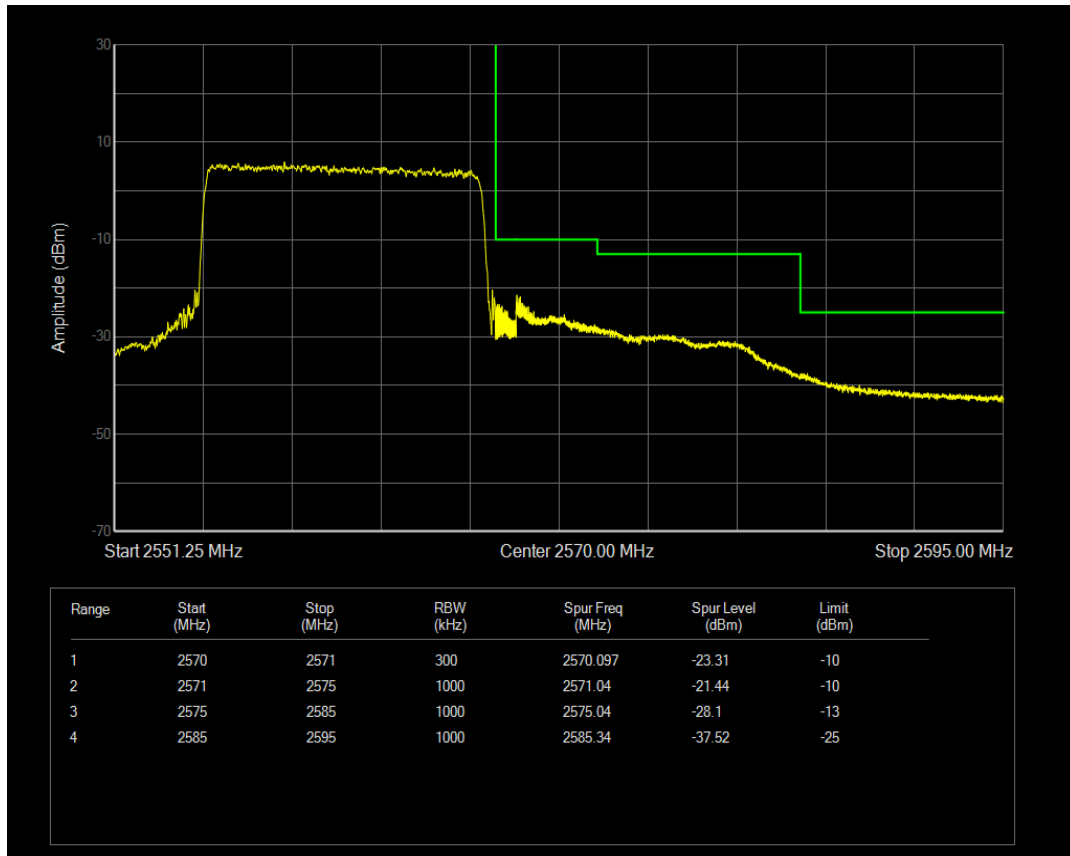
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



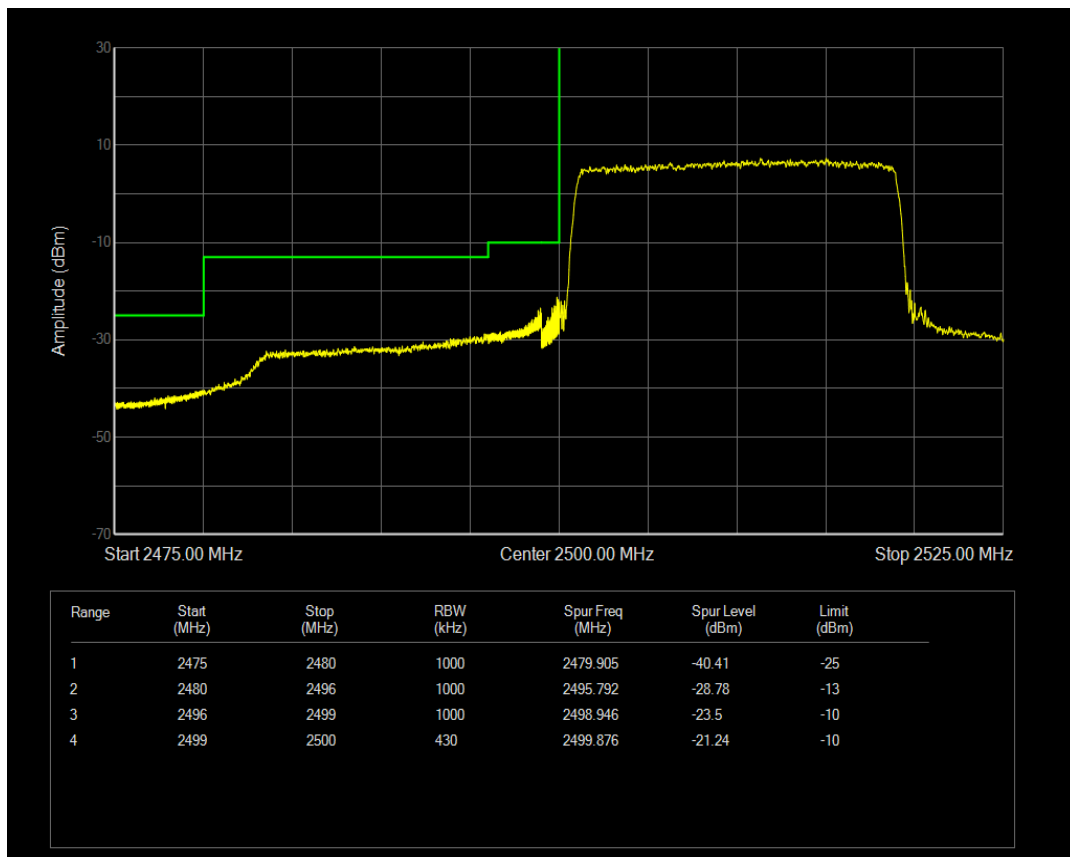
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



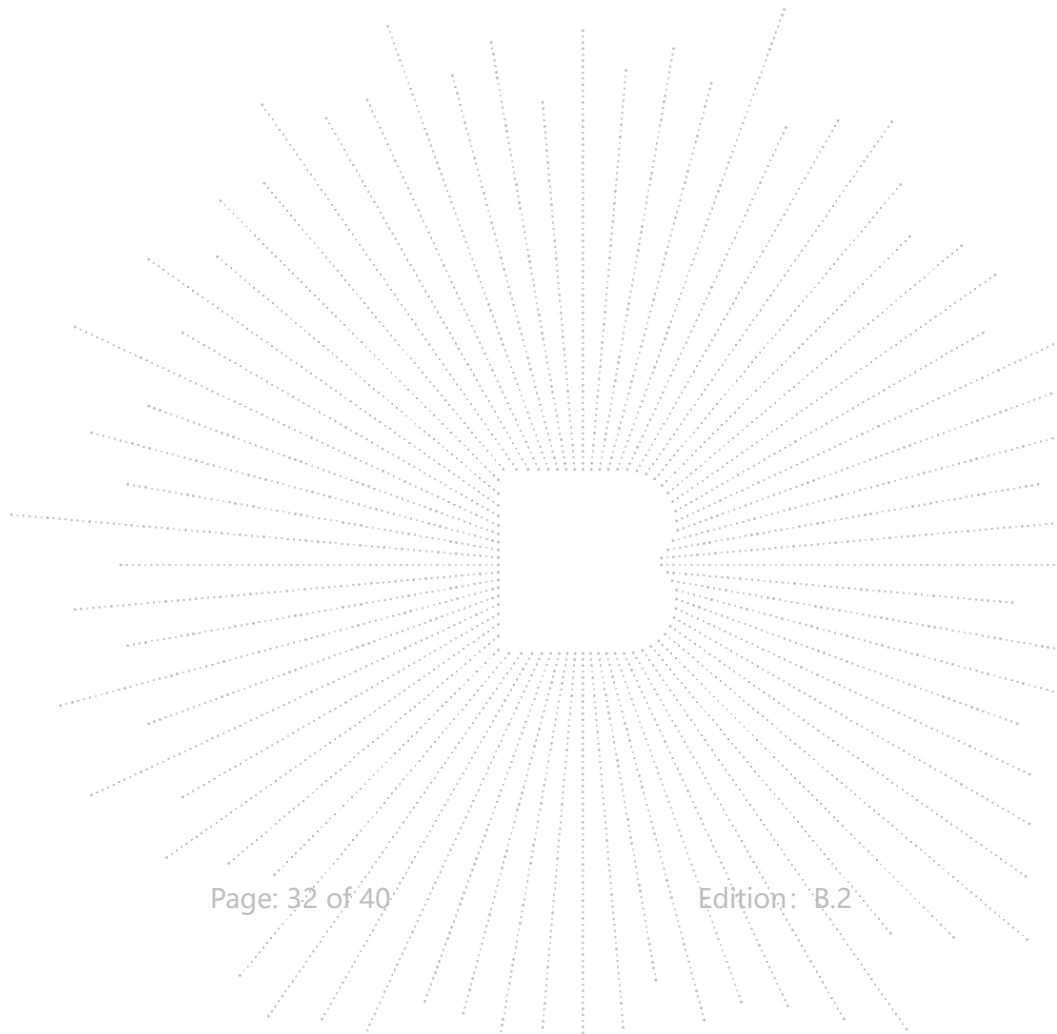
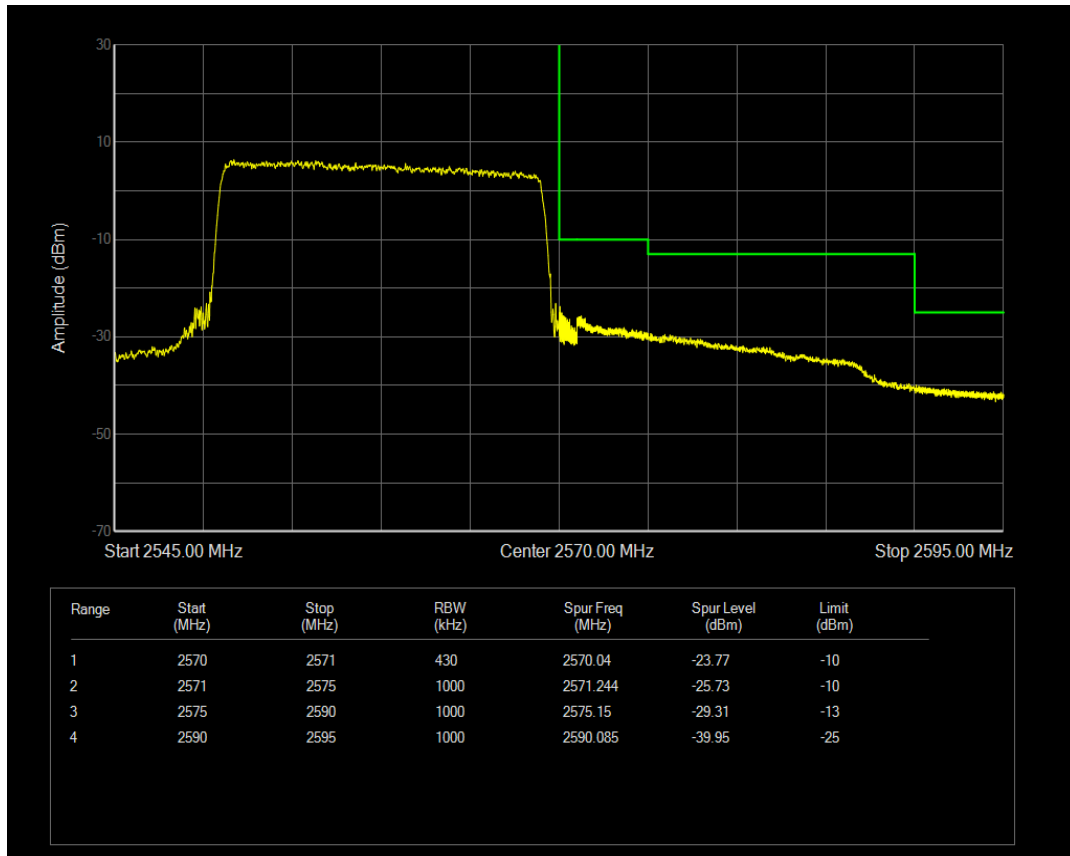
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



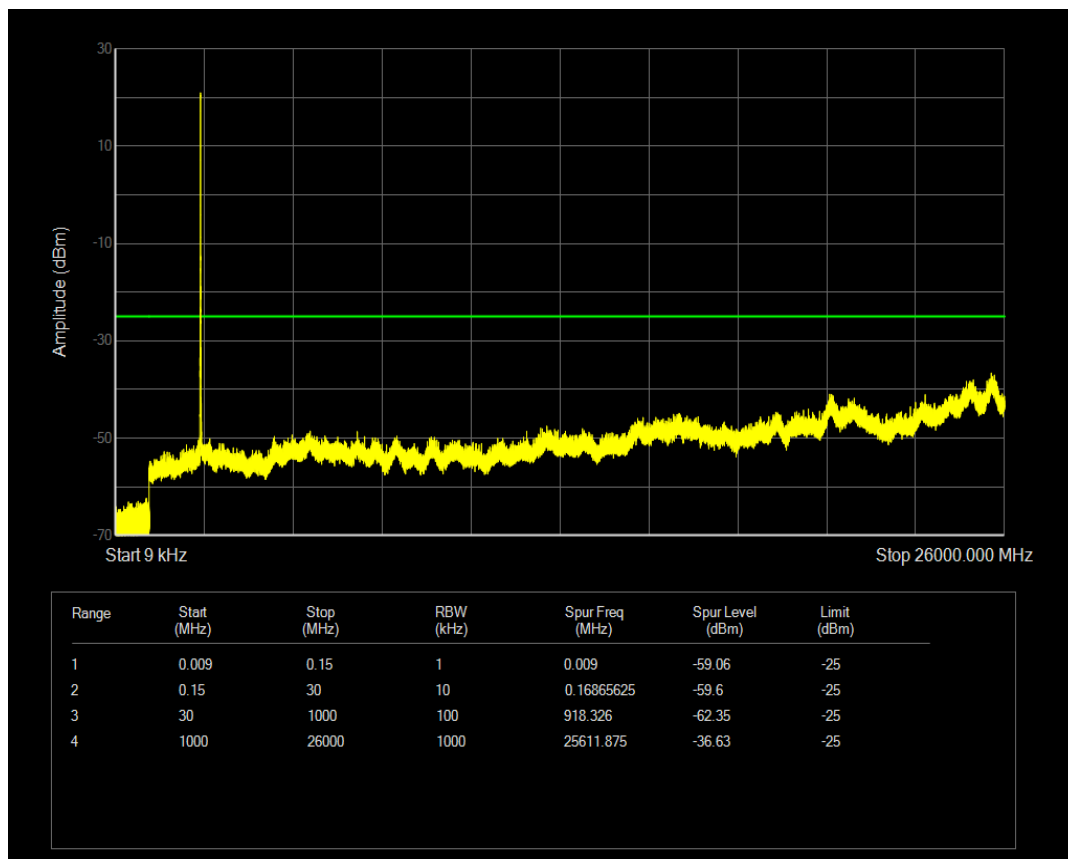
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



Appendix 6. Out-of-band emissions

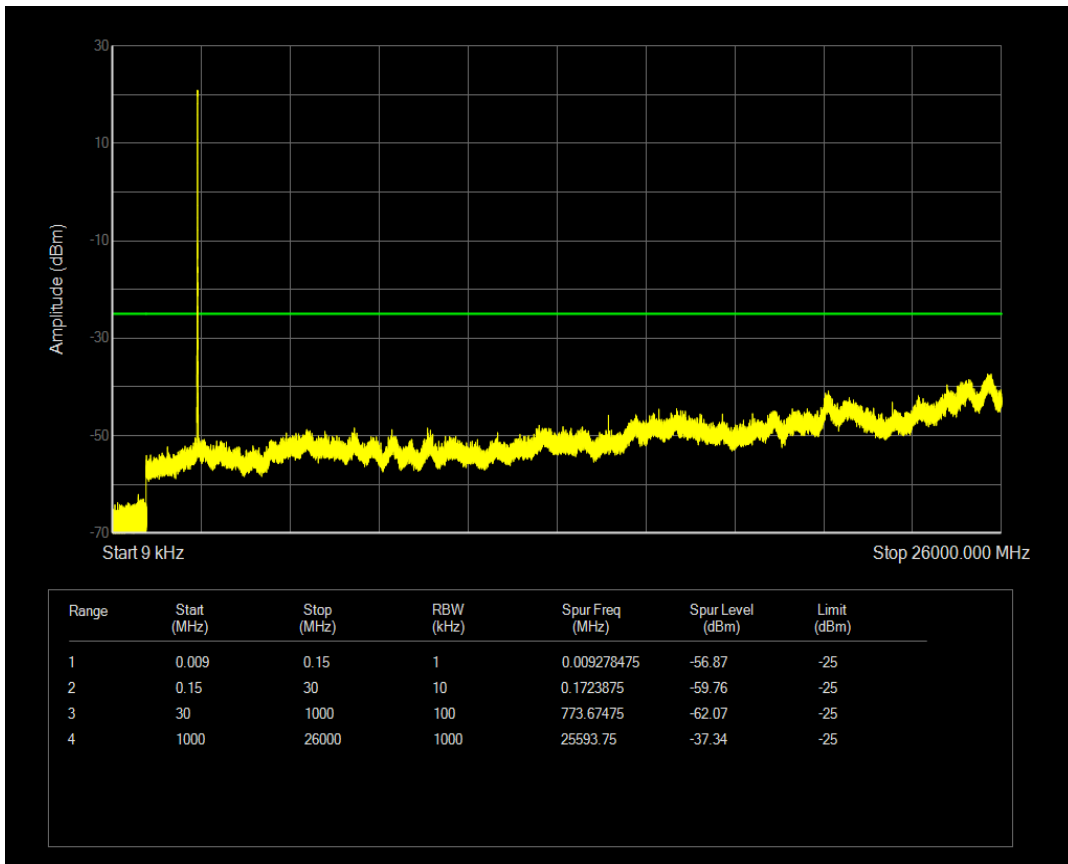
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	25611.88	-36.63	-25	PASS
Band7	5	20775	25	#0	16QAM	25593.75	-37.34	-25	PASS
Band7	5	21100	25	#0	QPSK	25646.88	-35.90	-25	PASS
Band7	5	21100	25	#0	16QAM	25681.25	-35.62	-25	PASS
Band7	5	21425	25	#0	QPSK	25747.50	-36.97	-25	PASS
Band7	5	21425	25	#0	16QAM	25525.63	-35.98	-25	PASS
Band7	10	20800	50	#0	QPSK	25577.50	-36.74	-25	PASS
Band7	10	21100	50	#0	QPSK	25669.38	-37.20	-25	PASS
Band7	10	21400	50	#0	QPSK	25614.38	-37.12	-25	PASS
Band7	15	20825	75	#0	QPSK	25608.75	-36.02	-25	PASS
Band7	15	21100	75	#0	QPSK	25613.75	-36.91	-25	PASS
Band7	15	21375	75	#0	QPSK	25626.25	-36.41	-25	PASS
Band7	20	20850	100	#0	QPSK	25625.00	-36.96	-25	PASS
Band7	20	21100	100	#0	QPSK	25645.63	-36.43	-25	PASS
Band7	20	21350	100	#0	QPSK	25622.50	-35.80	-25	PASS

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

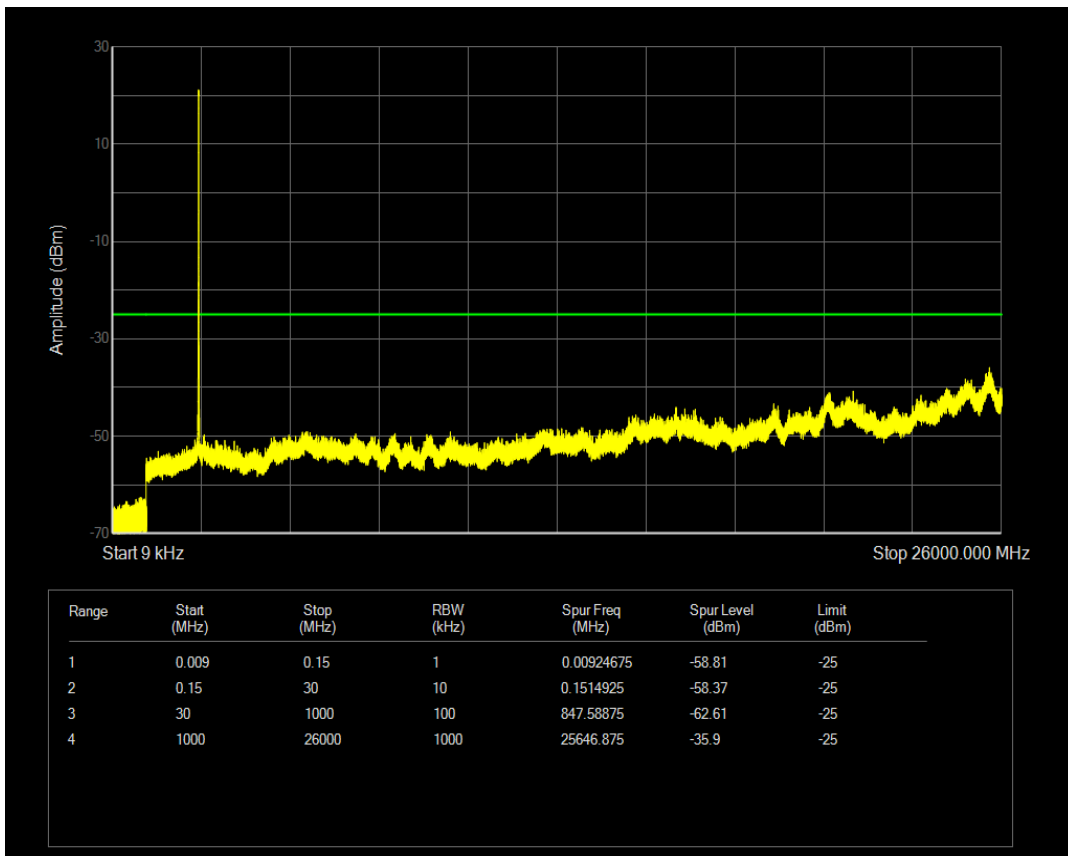




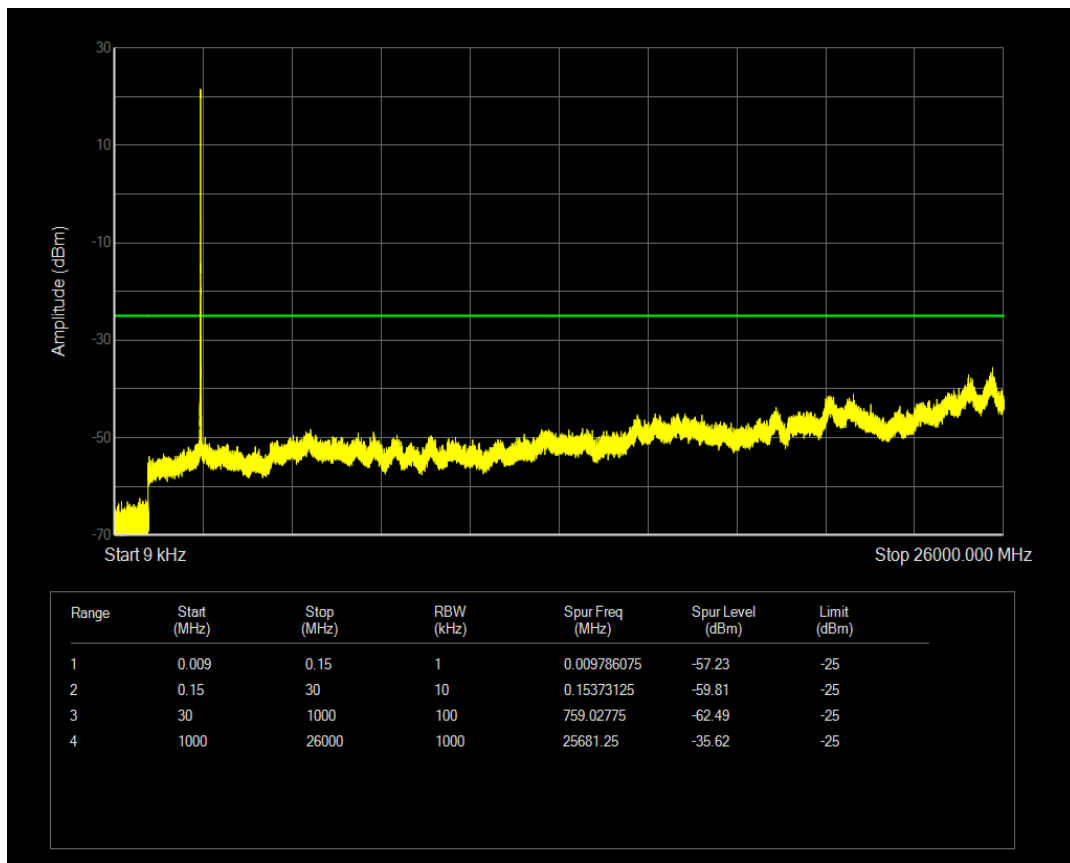
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



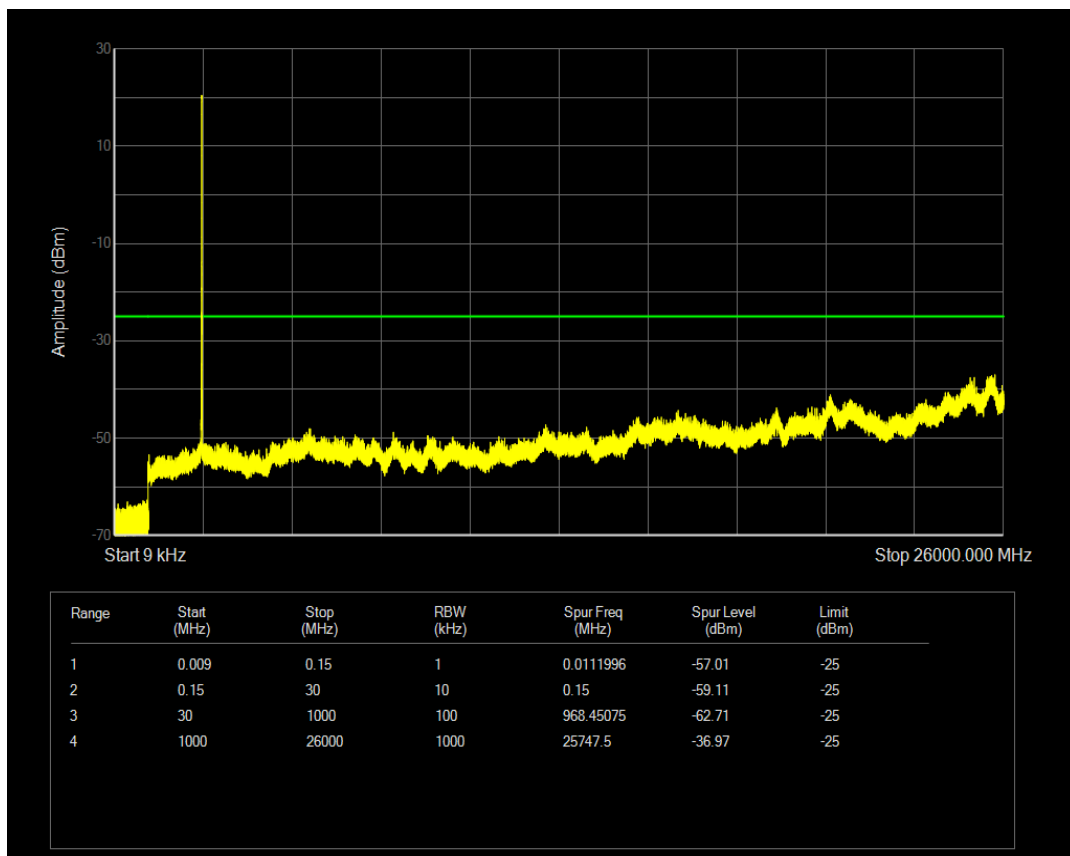
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



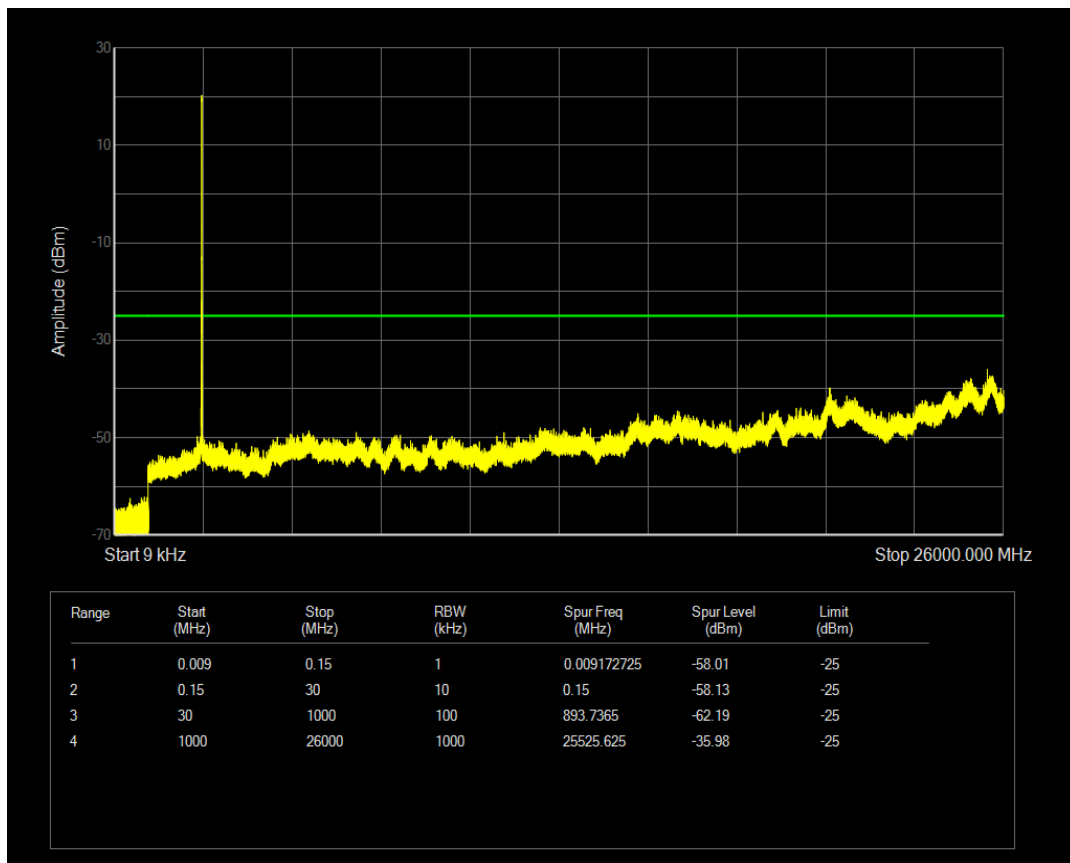
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



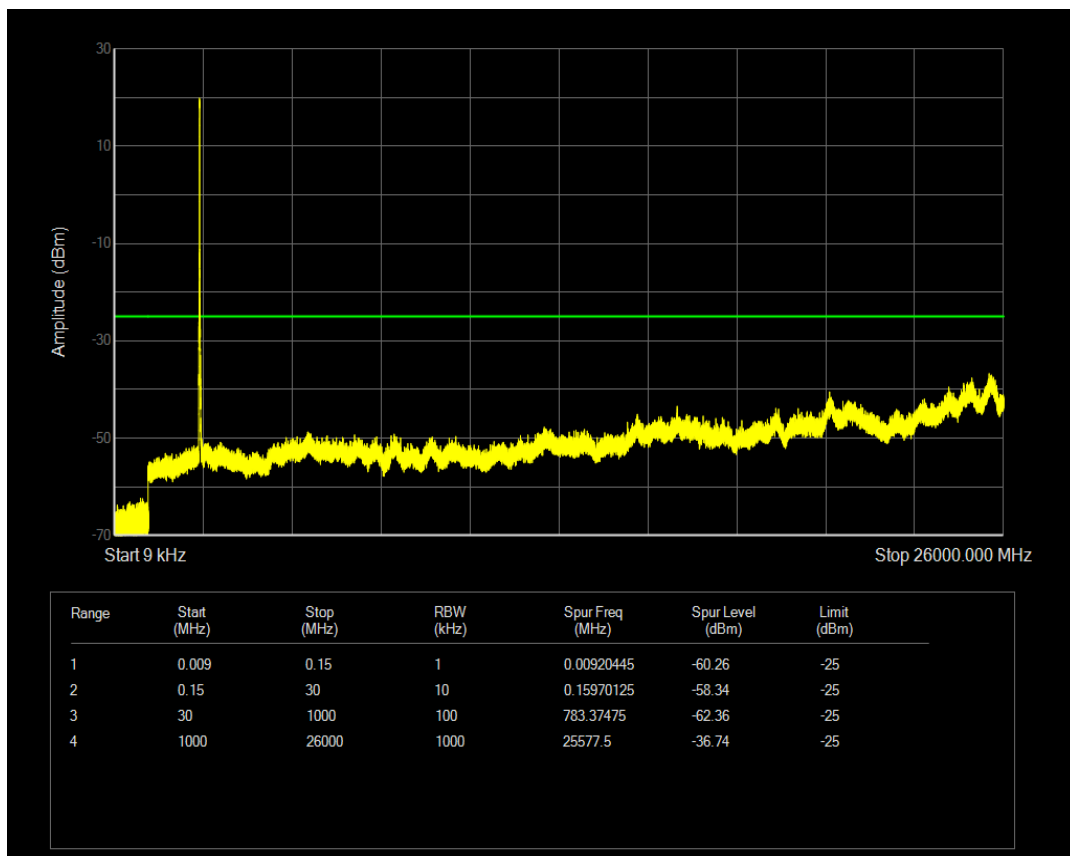
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



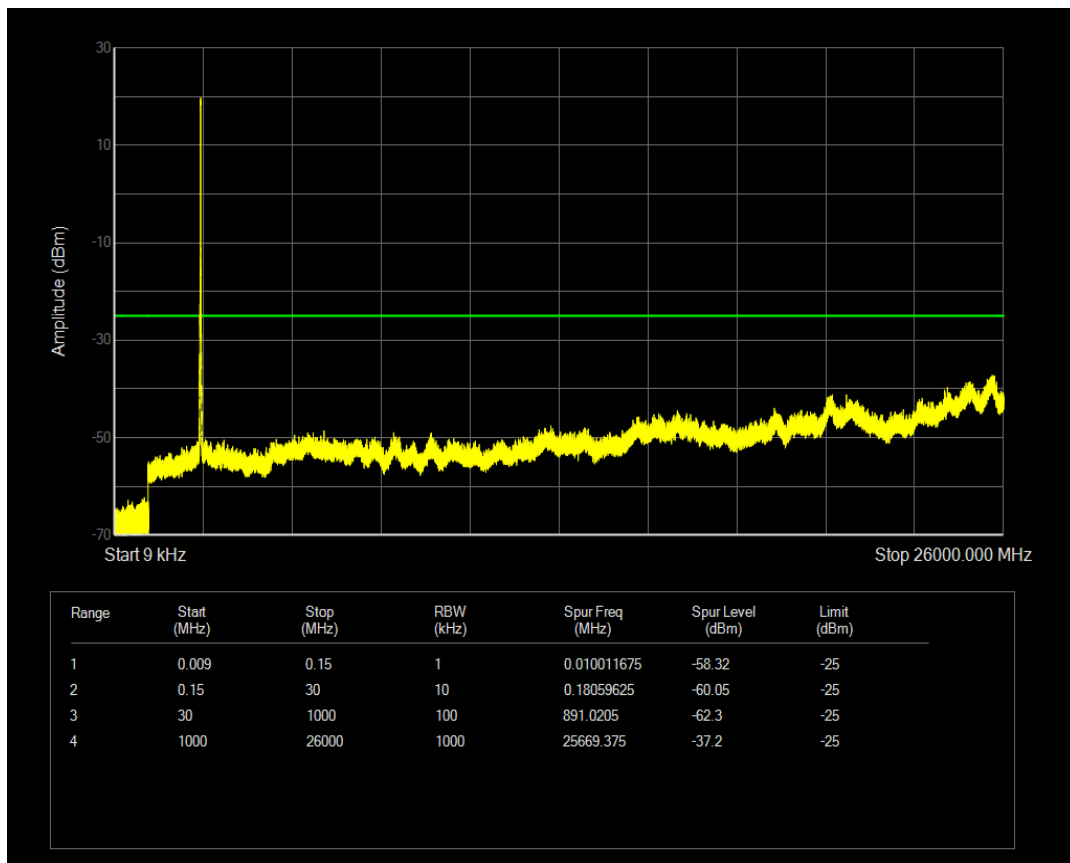
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



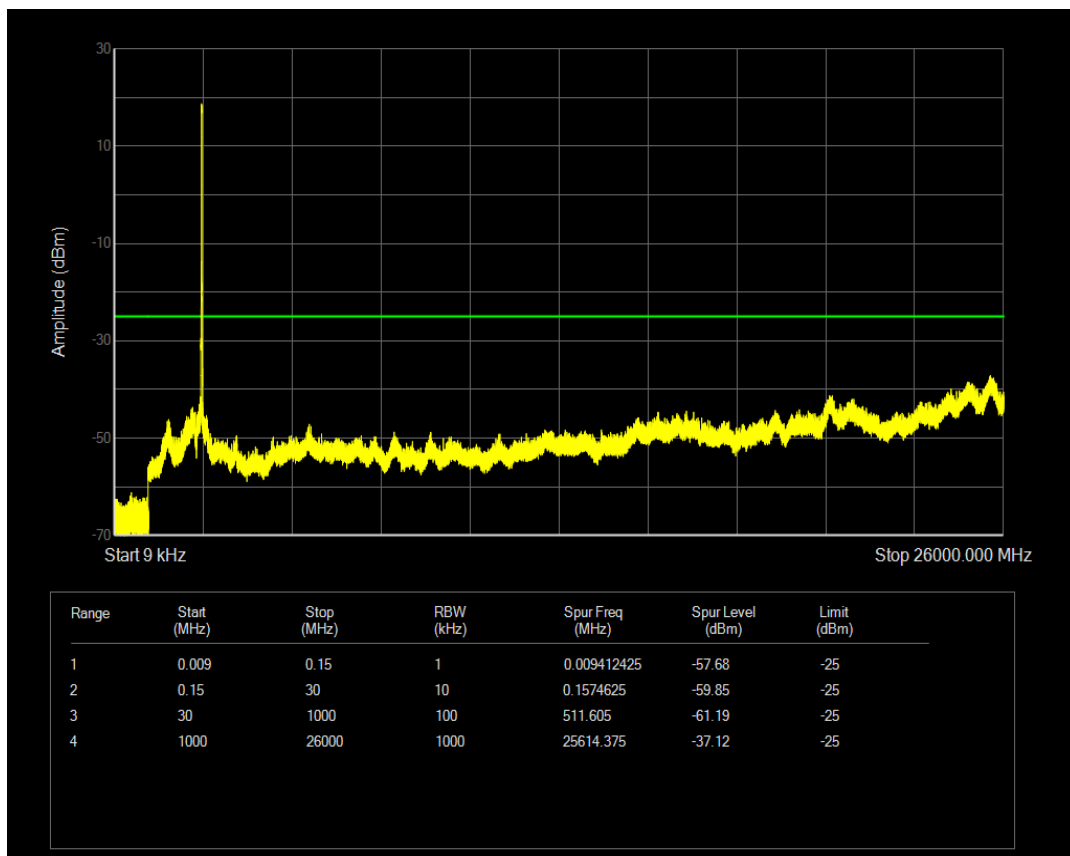
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



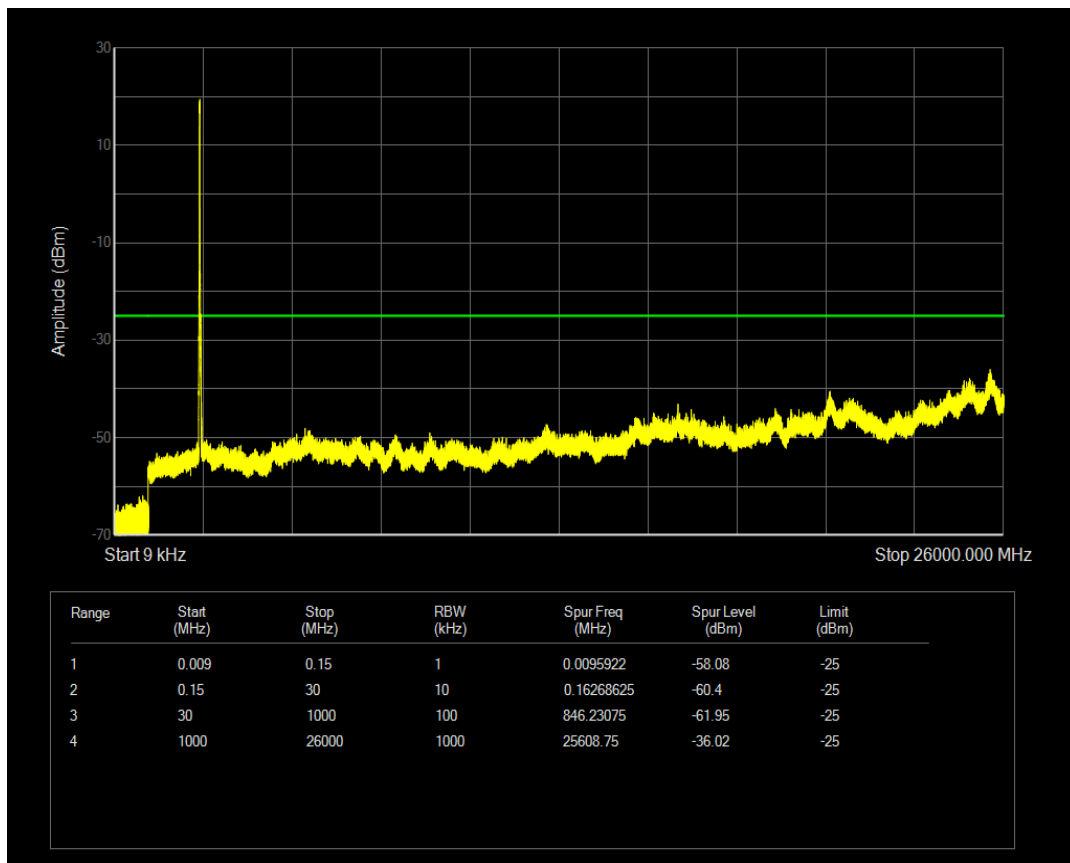
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



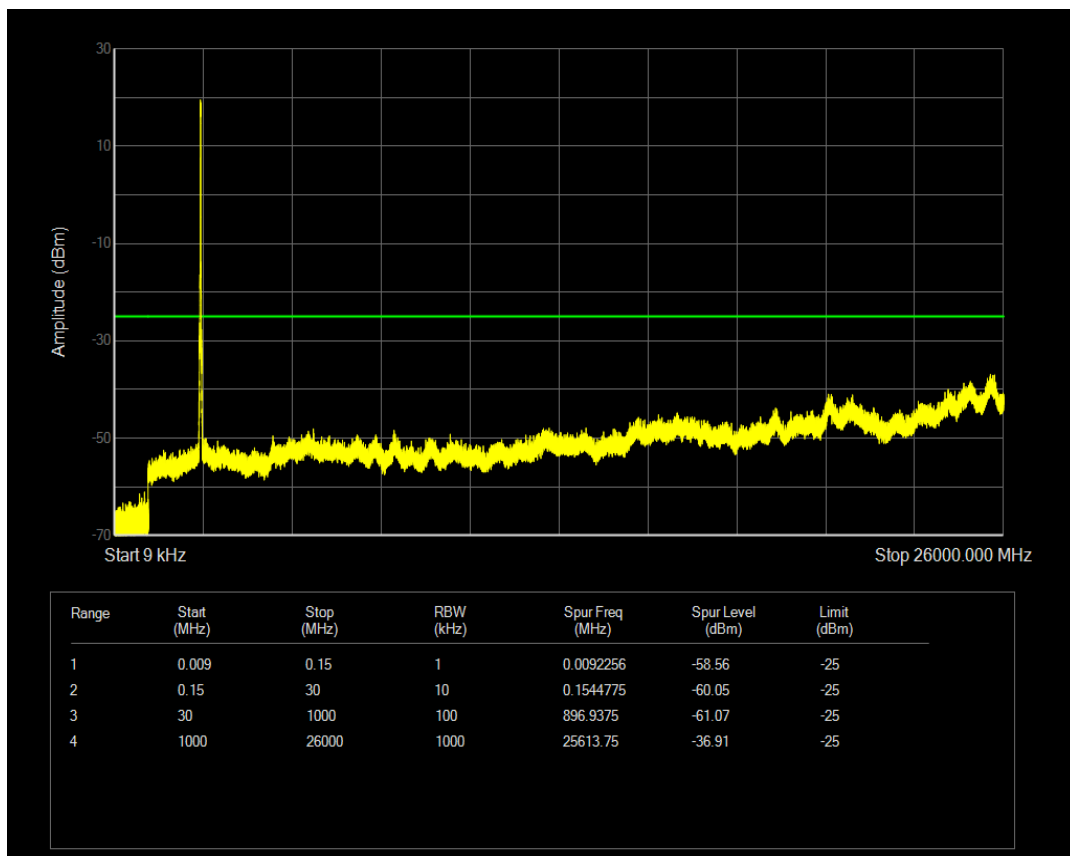
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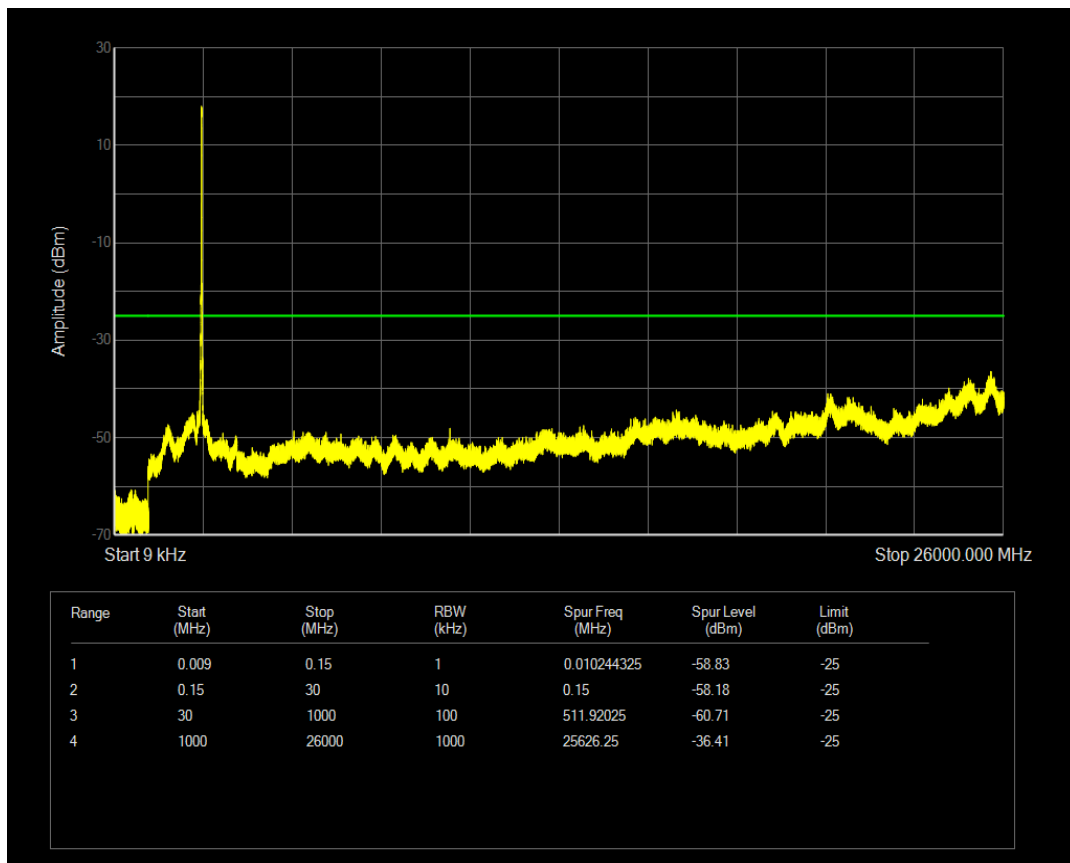
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



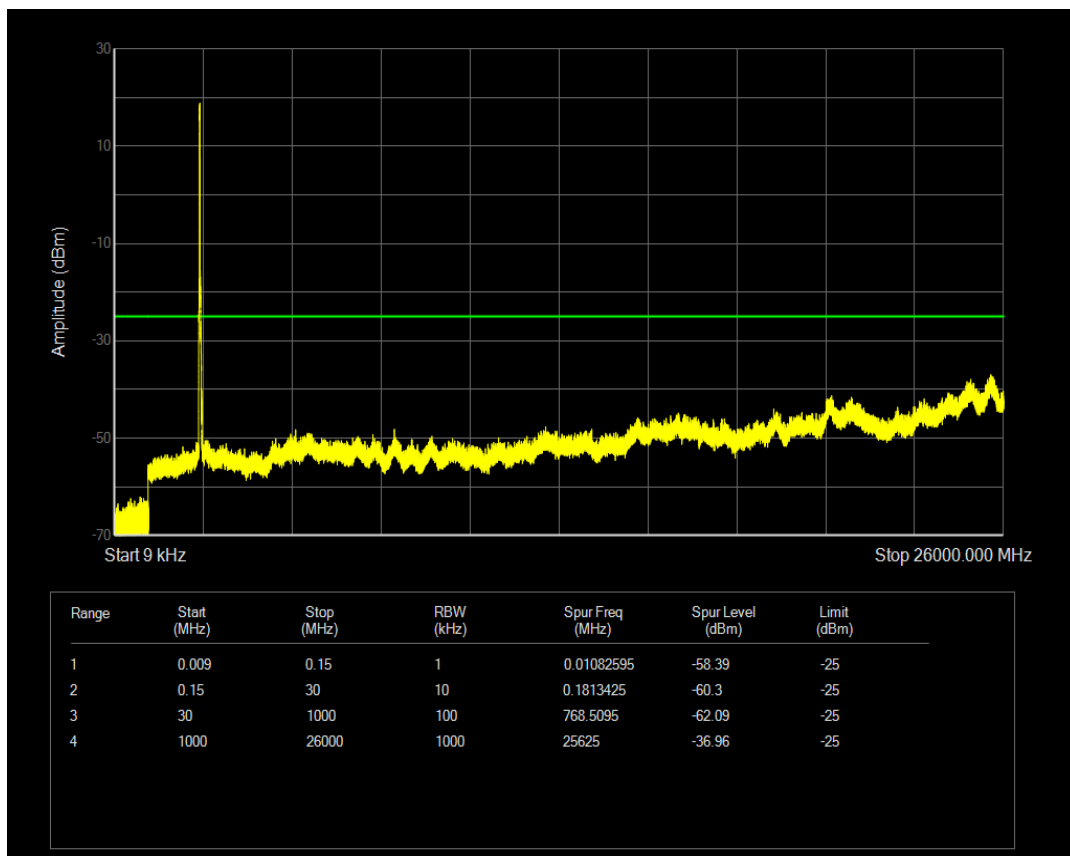
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



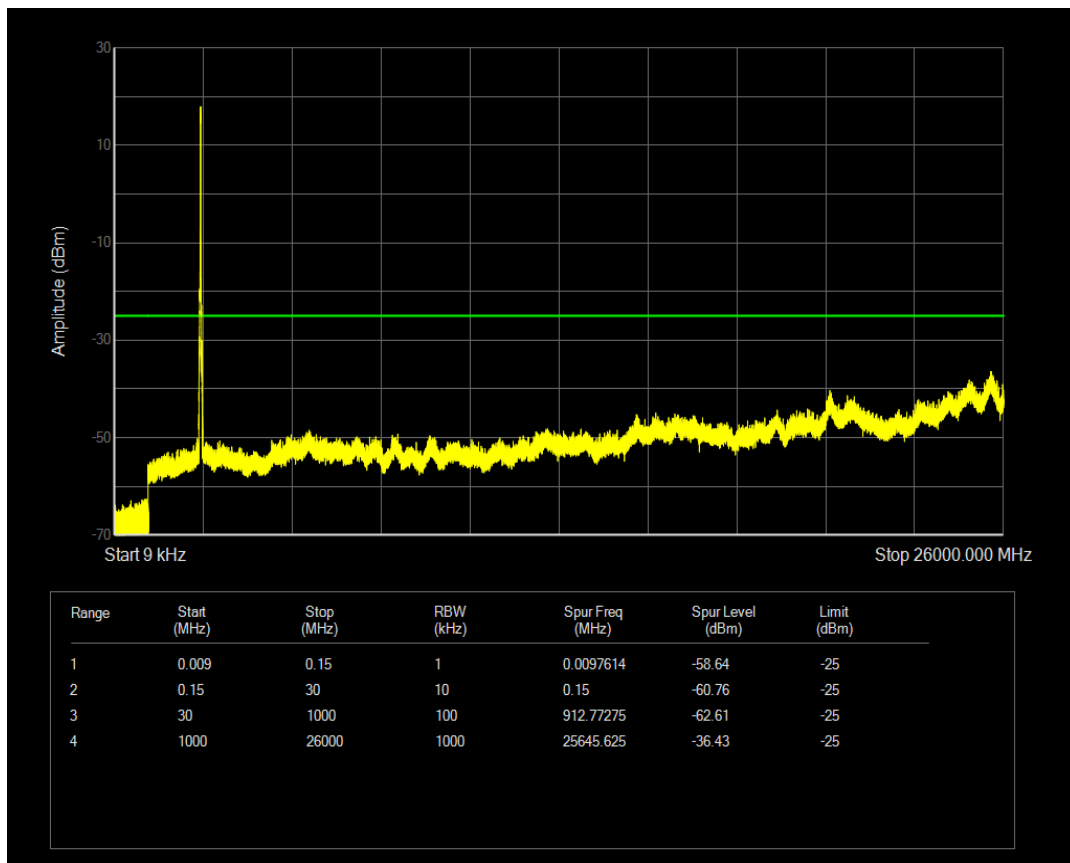
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

